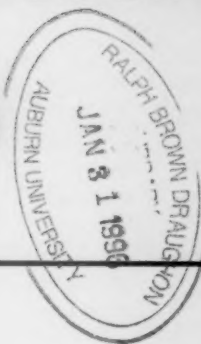




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 — (with Vitányi, Paul M. B.) Erratum: "Kolmogorov complexity arguments in combinatorics". 95i:68065b
 Ng, Raymond T. (with Subrahmanian, V. S.) A semantical framework for supporting subjective and conditional probabilities in deductive databases. (English summary) 95a:68022
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 Simonius, Markus Measurement in quantum mechanics: from probabilities to objective events. (English summary) 95a:81033

- Subrahmanian, V. S. see Ng, Raymond T., 95a:68022
 Uspenskii, V. A. Kolmogorov and mathematical logic. 95c:01039
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 Youssef, Saul Quantum mechanics as Bayesian complex probability theory. (English summary) 95h:81004

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60B05 Probability measures on topological spaces

- Abdellaoui, Taoufik Détermination d'un couple optimal du problème de Monge-Kantorovich. (English and French summaries) [Determination of an optimal couple in the Monge-Kantorovich problem] 95h:60005
 Dudley, R. M. Metric marginal problems for set-valued or non-measurable variables. (English summary) 95h:60006
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 — see also Kuelbs, James; et al., 95c:60004
 Talagrand, Michel Constructions of majorizing measures, Bernoulli processes and cotype. (English summary) 95j:60008

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- Dotto, Oclide José Approximate dilations. 95f:28017
 Fouché, W. L. Identifying randomness given by high descriptive complexity. (English summary) 95f:68112
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 Shimomura, Hiroaki Poisson measures on the configuration space and unitary representations of the group of diffeomorphisms. 95i:22031
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- Blanco, Liliana Relative compactness and tightness in the space $B[0, 1]$. (Spanish. Spanish summary) 95c:60005
 Bloznelis, Mindaugas P. (with Paulauskas, Vyngantas) Central limit theorem in the space $D[0, 1]$. I. (Russian. Lithuanian summary) 95k:60005a
 — (with Paulauskas, Vyngantas) Central limit theorem in the space $D[0, 1]$. II. (Russian. Lithuanian summary) 95k:60005b
 Chen, Jun Ya A sufficient condition for weak convergence of sequences of probability distribution functions. (Chinese)
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 Xia, Ai Hua Weak convergence of single jump processes. (English summary) 95f:60006

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- Aldous, David J. Recursive self-similarity for random trees, random triangulations and Brownian excursion. (English summary) 95i:60007
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 Casati, Giulio (with Girko, V. L.; Molinari, Luca) Equation for limit functions of band random matrices. (English summary) 95d:60043
 Choukairi-Dini, Ahmed Convergence des suites adaptées de multifonctions et ensembles de Radon-Nikodým. (English and French summaries) [Convergence of multivalued adapted sequences and Radon-Nikodým sets] 95k:28028
 Dudley, R. M. Metric marginal problems for set-valued or non-measurable variables. (English summary) 95h:60006
 El-Bassiouny, Ahmed H. Limit theorems for some functionals of random processes generated by a statistical estimate of entropy in a polynomial scheme. (English summary) 95c:60025
 Ethier, S. N. (with Kurtz, Thomas G.) Convergence to Fleming-Viot processes in the weak atomic topology. (English summary) 95m:60075
 Gässler, Peter On recent developments in the theory of set-indexed processes. (English summary) 95j:60002
 Girko, V. L. (with Kirsch, Werner) Limit theorems for band random matrices whose entries have bounded variances. (English summary) 95b:60021
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 Huang, Ke Ming A weak convergence theorem for composite stochastic fields in the Skorokhod topology. (Chinese. English and Chinese summaries)

- Kawabe, Jun Convergence of compound probability measures on topological spaces. 95j:60007
- Kirsch, Werner *see* Girko, V. L., 95b:60021
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- Molinari, Luca *see* Casati, Giulio; et al., 95d:60043
- Nejib, Ben Salem Convolution semigroups and central limit theorem associated with a dual convolution structure. (English summary) 95d:60019
- Prastgaard, Jens A weighted central limit theorem for a function-indexed sum with random point masses. 95k:60064
- Ramachandran, K. M. Discrete parameter singular control problem with state dependent noise and nonsmooth dynamics. (English summary) 95b:93187
- Shortt, R. M. Strassen's theorem for vector measures. (English summary) 95a:28005
- Starček, Mariusz Relation between weak convergence and convergence in the Prokhorov-Sibley metric. (English and Polish summaries)
- Stepakhno, I. V. On the sufficient conditions in the limit theorem for singular spectral functions of random matrices. (English summary) 95d:60054
- Wang, Han Xing The weak topology on the space of Banach space valued measures on a metric space. (Chinese. English and Chinese summaries) 95k:46041
- Xia, Ai Hua A note on the Prohorov distance between a counting process and a Poisson process. (English summary) 95b:60079

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- Abdellaoui, Taoufik (with Heinrich, Henri) Sur la distance de deux lois dans le cas vectoriel. (English and French summaries) [Distance of two probabilities on Banach space] 95b:60007
- Chobanyan, S. A. Convergence a.s. of rearranged random series in Banach space and associated inequalities. 95k:60008
- Daher, M. La propriété de Radon-Nikodým analytique. (French summary) [The analytic Radon-Nikodým property] 95j:60009
- Dobrić, Vladimir Weakly compactly generated Banach spaces and the strong law of large numbers. (English summary) 95a:60004
- Giné, Evarist (with Zinn, Joel) On Hoffmann-Jørgensen's inequality for U -processes. 95a:60005
- Gonzalez-Barrios, José M. Càdlàg and regulated functions on $[0, 1]$. 95j:60009
- Heinrich, Henri *see* Abdellaoui, Taoufik, 95b:60007
- Kallianpur, Gopinath (with Karandikar, Rajeeva L.) Nonlinear transformations of the canonical Gauss measure on Hilbert space and absolute continuity. (English summary) 95m:60005
- Karandikar, Rajeeva L. *see* Kallianpur, Gopinath, 95m:60005
- Latała, Rafał (with Oleszkiewicz, Krzysztof) On the best constant in the Khinchin-Kahane inequality. (English summary) 95a:60006
- Ledoux, Michel Inégalités isopérimétriques en analyse et probabilités. (French summary) [Isoperimetric inequalities in analysis and probability theory] 95k:60009
- Li, De Li (with Yang, Xiao Yun) The moment of the maximum of the stub and the moment of the last exit time. (English summary)
- Linde, Werner (with Rosiński, Jan) Exact behavior of Gaussian measures of translated balls in Hilbert spaces. (English summary) 95b:60008
- Lisitskii, A. D. Asymptotic expansions of the tails of symmetric stable laws. (Russian) (see 95d:60004)
- Maeda, Michie Several topologies related to the Sazonov topology. 95e:60006a
- Correction to: "Several topologies related to the Sazonov topology". 95e:60006b
- Makagon, A. (with Salehi, Habib) Infinite-dimensional stationary sequences with multiplicity one. II. (English summary) 95b:60004
- Mayer-Wolf, Eduardo Preservation of measure continuity under conditioning. (English summary) 95a:60007
- Norvaiša, Rimas ★ Poisson and Brownian motion random functions with applications. (English summary) 95d:60008
- ★ Distributions of stable processes on spaces of measurable functions. 95e:60007
- Distributions of tail empirical processes on Banach function spaces. (Lithuanian summary) 95e:60008
- Okazaki, Yoshiaki (with Takahashi, Yasuji) The converse of Minlos' theorem. (English summary) 95m:60006
- Oleszkiewicz, Krzysztof *see* Latała, Rafał, 95a:60006
- Pinelis, Iosif On a majorization inequality for sums of independent random vectors. (English summary) 95c:60005
- Pugachev, V. S. On some measures in a space of functions with values in a Hilbert space. (Russian) 95k:60010
- Rachev, Svetlozar T. (with Samorodnitsky, Gennady) Geometric stable distributions in Banach spaces. (English summary) 95b:60005
- Rosiński, Jan *see* Linde, Werner, 95b:60008
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- Samorodnitsky, Gennady *see* Rachev, Svetlozar T., 95b:60005
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- Brooks, James K. (with Martellotti, Anna) Decomposition theorems for weak quasi martingales. (Italian summary) 95d:60066
- Chiang, Tsu Shu (with Kallianpur, Gopinath; Sundar, P.) Propagation of chaos for systems of interacting neurons. 95d:60092
- Cuesta, Juan Antonio (with Matrán, Carlos) Stochastic convergence through Skorohod representation theorems and Wasserstein distances. 95i:60026
- Fernique, Xavier Une caractérisation des espaces de Fréchet nucléaires. [A characterization of nuclear Fréchet spaces] 95k:46004

- Feyel, Denis (with de La Pradelle, Arnaud) Opérateurs linéaires gaussiens [MR 95g:60050]. (English summary) [Gaussian linear operators] (see 95k:31001)
- Flytzanis, Elias Unimodular eigenvalues and linear chaos in Hilbert spaces. (English summary) 95k:28034
- Gorodnii, M. F. Stationary solutions of a multi-dimensional stochastic difference equation in a Banach space. (English summary) 95m:60094
- Gorostiza, Luis G. (with López-Mimbela, J. Alfredo) A convergence criterion for measure-valued processes, and application to continuous superprocesses. (English summary) 95b:60053
- Heinrich, Lothar (with Molchanov, I. S.) Some limit theorems for extremal and union shot-noise processes. (English summary) 95g:60019
- Hunt, Brian R. The prevalence of continuous nowhere differentiable functions. (English summary) 95d:26009
- Kallianpur, Gopinath *see* Chiang, Tsu Shu; et al., 95d:60092
- Kuelbs, James (with Li, Wenbo V.) Some large deviation results for Gaussian measures. 95m:60050
- de La Pradelle, Arnaud *see* Feyel, Denis, (95k:31001)
- Letac, Gérard Les familles exponentielles statistiques invariantes par les groupes du cône et du paraboloïde de révolution. (English summary) [Statistical exponential families invariant under the groups of the cone and of the paraboloid of revolution] 95c:62016
- Li, Lu Shu Random fuzzy sets and fuzzy martingales. (English summary) 95m:60003
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- López-Mimbela, J. Alfredo *see* Gorostiza, Luis G., 95b:60053
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- Matrán, Carlos *see* Cuesta, Juan Antonio, 95i:60026
- Molchanov, I. S. *see* Heinrich, Lothar, 95g:60019
- Petrov, V. A. On the determination of the mean values and correlation functions of conditional Gaussian measures in the space of continuous functions of two variables. (Russian. English and Russian summaries)
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- Pinelis, Iosif Sharp exponential inequalities for the martingales in the 2-smooth Banach spaces and applications to "scalarizing" decoupling. 95j:60033
- Potocký, Rastislav (with Urbaniková, Marta) Two theorems on vector lattice-valued random variables. (English summary) 95f:60008
- Rudnicki, Ryszard Gaussian measure-preserving linear transformations. (English summary) 95f:47015
- Sato, Takakazu Wiener measures on certain Banach spaces over non-Archimedean local fields. 95b:46125
- Slaby, Marek On large deviations of Gaussian measures in Banach spaces. 95a:60038
- Sundar, P. *see* Chiang, Tsu Shu; et al., 95d:60092
- Szłaga, Jerzy The state of decoupling: a survey. (English summary) 95i:60044
- (p, r) -convex functions on vector lattices. (English summary) 95j:46004
- Talagrand, Michel The small ball problem for the Brownian sheet. (English summary) 95k:60049
- Tarieladze, V. I. On the topological description of characteristic functionals in infinite-dimensional spaces. 95m:60004
- Urbaniková, Marta *see* Potocký, Rastislav, 95f:60008
- Velasco, M. V. (with Villena Muñoz, Armando R.) A random Banach-Steinhaus theorem. (English summary) 95j:60097
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- Vladimírskii, Yu. N. Conditions for the countable additivity of a cylindrical measure in a conjugate locally convex space. (Russian. Russian summary) 95j:46047

60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)

- Becker, Richard Edouard Sur la loi forte des grands nombres dans les espaces de Banach. [On the strong law of large numbers in Banach spaces] 95f:60007
- Borisov, I. S. (with Solov'ev, E. A.) Second-order approximation for the distributions of smooth functionals of sums of independent Banach-space-valued random elements. (Russian. Russian summary) 95k:60011
- Borovskikh, Yu. V. U -statistics in Banach spaces. (English summary) 95d:60009
- Chang, Hen Chao *see* Hu, Tien Chung, 95k:60012
- Chebotarëv, V. I. *see* Nagaev, S. V., 95k:60015
- Chen, Xia Kolmogorov's law of the iterated logarithm for B -valued random elements and empirical processes. (Chinese. Chinese summary) 95e:60009
- On Strassen's law of the iterated logarithm in Banach space. (English summary) 95b:60009
- Chuprunov, A. N. Limit theorems for stable laws in Banach spaces that possess geometric properties. (Russian) 95a:60008
- Central limit theorem for randomly weighted summands in Banach spaces. (Russian) 95b:60010
- Convergence in distribution of almost all sums of independent random elements to a stable law. (Russian) 95i:60005
- Einhall, Uwe Toward a general law of the iterated logarithm in Banach space. (English summary) 95d:60010
- Gan, Shi Xin L^1 convergence of weighted sums of Banach-space-valued martingale difference arrays and the weak law of large numbers. (Chinese. English and Chinese summaries) 95j:60010
- Goodman, V. (with Kuelbs, James) Gaussian chaos and functional laws of the iterated logarithm for Itô-Wiener integrals. (English and French summaries) 95d:60011
- Hu, Tien Chung (with Chang, Hen Chao) Strong laws of large numbers for arrays of random elements. (English summary) 95k:60012
- Jakubowski, Adam On multidimensional domains of attraction for stationary sequences. (English summary) 95g:60010
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- Kuczmaszewska, Anna (with Szynal, Dominik) On the strong law of large numbers in Banach space of type p . (English and Polish summaries) 95k:60013
 — (with Szynal, Dominik) On complete convergence in a Banach space. (English summary) 95d:60012
- Kuelbs, James see Goodman, V., 95d:60011
- Lagodowski, Zbigniew A. On the Feller strong law of large numbers for fields of B -valued random variables. (English summary) 95m:60007
- Lee, Sungho (with Taylor, Robert Lee) Sub-Gaussian techniques in obtaining laws of large numbers in $L^1(\mathbb{R})$. (English summary) 95j:60011
- Li, De Li (with Wang, Xiang Chen) A result on the iterated logarithm law. (Chinese. English and Chinese summaries)
- Li, Ze Zhi (with Zhang, Bu Cheng) A convergence theorem for sums of dependent Hilbert space valued triangular arrays. (English summary) 95c:60006
- Maeda, Michie (with Kano, Masako) The central limit theorem in abstract Wiener spaces. 95m:60008
- Matsak, I. K. (with Plichko, A. N.) On the law of the iterated logarithm for weighted sums of independent random variables in a Banach space. (Ukrainian. English and Ukrainian summaries) 95b:60011
- Móricz, Ferenc (with Su, Kuo Liang; Taylor, Robert Lee) Strong laws of large numbers for arrays of orthogonal random elements in Banach spaces. 95k:60014
- Nagaev, S. V. (with Chebotarev, V. I.) On the Edgeworth expansion in a Hilbert space. (Russian. Russian summary) 95k:60015
- Peng, Jia Nan (with Jiang, Jian Cheng; Shen, Shi Yi) Weak convergence of probabilistic operator measures. (Chinese. Chinese summary) 95m:60009
- Pérez-Abreu, Victor (with Tudor, Constantin) Large deviations on nuclear dual Fréchet spaces. (English summary) 95j:60012
- Plichko, A. N. see Matsak, I. K., 95b:60011
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- Račkauskas, A. On Gaussian approximation of Hilbert space valued discrete time martingales. (Lithuanian summary) 95m:60010
- Romano, Joseph P. see Politis, Dimitris N., 95j:60013
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- Su, Zhong Gen Marcinkiewicz laws of large numbers for a sequence of independent Banach space-valued random variables. (Chinese. Chinese summary) 95d:60013
- Sung, Soo Hak Chung-Teicher type strong law of large numbers in Banach space. 95g:60011
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- Yang, Xiao Yun Tail probabilities for sums of B -valued random elements and their convergence rates. (Chinese. English summary)
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- Cox, J. Theodore (with Greven, Andreas) The finite systems scheme: an abstract theorem and a new example. (English summary) 95h:60157
 — (with Greven, Andreas) Ergodic theorems for infinite systems of locally interacting diffusions. (English summary) 95h:60158
- Cuesta, Juan Antonio (with Matrán, Carlos) Stochastic convergence through Skorohod representation theorems and Wasserstein distances. 95i:60026
- Dobrić, Vladimir Weakly compactly generated Banach spaces and the strong law of large numbers. (English summary) 95a:60004
- Greven, Andreas see Cox, J. Theodore, 95h:60157 and 95h:60158
- Kuelbs, James (with Li, Wenbo V.; Linde, Werner) The Gaussian measure of shifted balls. (English summary) 95c:60004
- Li, De Li (with Yang, Xiao Yun) The moment of the maximum of the stub and the moment of the last exit time. (English summary)
- Li, Wenbo V. see Kuelbs, James; et al., 95c:60004
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- Liu, Pei De Some new results on martingale inequalities and geometry in Banach spaces. 95a:46016
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- Stoica, Gheorghe Order convergence and decompositions of stochastic processes. (English summary) 95k:60111
- Tarieladze, V. I. On the topological description of characteristic functionals in infinite-dimensional spaces. 95m:60004
- Wu, Li Ming Large deviations, moderate deviations and LIL for empirical processes. (English summary) 95g:60039
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60B15 Probability measures on groups, Fourier transforms, factorization

- Albin, J. M. P. On LIL behaviour for moving averages of some infinitely divisible random measures. (English summary) 95c:60007
- Budzbán, Greg Necessary and sufficient conditions for the convergence of convolution products of non-identical distributions on finite abelian semigroups. (English summary) 95g:60012
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 — (with Shahshahani, Mehrdad M.) On the eigenvalues of random matrices. (English summary) 95m:60011
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- Hazod, W. Measures with idempotent types and completely stable measures on nilpotent groups. 95j:60014
 — On different stability-concepts for probabilities on groups. 95d:60017
- Heyer, Herbert Functional limit theorems for random walks on one-dimensional hypergroups. (English summary) 95d:60018
- Hildebrand, Martin Random walks supported on random points of $\mathbb{Z}/n\mathbb{Z}$. (English summary) 95j:60015
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- Khokhlov, Yu. S. An analogue of the Shimizu equation for probability distributions on a nilpotent group. (Russian) (see 95d:60004)
- Laha, R. G. Some characterization problems in Hilbert space. (English summary) (see 95e:00030)
- Le Page, Émile (with Peigné, Marc) Un théorème limite local sur le groupe produit semi-direct de \mathbb{R}^{++} et \mathbb{R}^d . (English and French summaries) [A local limit theorem on the semidirect product of \mathbb{R}^{++} and \mathbb{R}^d] 95f:60010
- Lin, Michael (with Rubshtein, B. A.; Wittmann, Rainer) Limit theorems for random walks with dynamical random transitions. (English summary) 95k:60017
- Mindlin, D. S. (with Rubshtein, B. A.) Convolutional attractors of stationary sequences of random measures on compact groups. (English and French summaries) 95m:60014
- Mizumachi, Hitoshi (with Satô, Hiroshi) Continuity of quasi-invariant measures and zero-one laws on groups. (English summary) 95f:60011
- Nejib, Ben Salem Convolution semigroups and central limit theorem associated with a dual convolution structure. (English summary) 95d:60019
- Neuenschwander, Daniel A Gaussian central limit theorem for trimmed products on simply connected step 2-nilpotent Lie groups. (English summary) 95j:60016
- Pap, Gyula Uniqueness of embedding into a Gaussian semigroup on a nilpotent Lie group. 95a:60010
- Peigné, Marc see Le Page, Émile, 95f:60010
- Pemantle, Robin A shuffle that mixes sets of any fixed size much faster than it mixes the whole deck. (English summary) 95j:60017
- Rosenthal, Jeffrey S. Random rotations: characters and random walks on $SO(N)$. (English summary) 95c:60008
- Rubshtein, B. A. see Lin, Michael; et al., 95k:60017 and Mindlin, D. S., 95m:60014
- Saloff-Coste, Laurent see Diaconis, Persi, 95a:60009
- Satô, Hiroshi see Mizumachi, Hitoshi, 95f:60011
- Scheffler, Hans-Peter \mathcal{D} -domains of attraction of stable measures on stratified Lie groups. (English summary) 95j:60018
- Shah, Riddhi Semistable measures and limit theorems on real and p -adic groups. (English summary) 95g:60013
- Shahshahani, Mehrdad M. see Diaconis, Persi, 95m:60011
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- Zapala, August Strong limit theorems for the growth of increments of additive processes in groups. I. Basic properties of globular sets. (English and Polish summaries) 95k:60018
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- Acosta, Ernesto On the essential selfadjointness of Dirichlet operators on group-valued path space. (English summary) 95a:58131
- Biane, Philippe Théorème de Ney-Spitzer sur le dual de $SU(2)$. (English summary) [The Ney-Spitzer theorem on the dual of $SU(2)$] 95a:60103
- Coulhon, Thierry see Varopoulos, Nicholas Th., et al., 95f:43008
- D'Aristotle, Anthony J. The nearest neighbor random walk on subspaces of a vector space and rate of convergence. (English summary) 95m:60100
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- Donnelly, Peter (with Lloyd, Peter; Sudbury, Aidan) Approach to stationarity of the Bernoulli-Laplace diffusion model. (English summary) 95f:60080
- Feigin, Paul D. Inference and martingale estimating equations for stochastic processes on a semigroup. (English summary) 95d:62134
- Feinsilver, Philip Lie groups and probability. (English summary) 95f:17006
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- Graczyk, Piotr Cramér theorem on symmetric spaces of noncompact type. (English summary) 95j:43005
- Haran, Shai Analytic potential theory over the p -adics. (English and French summaries) 95c:11141
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- Lima, Ricardo (with Rahibe, M.) Exact Lyapunov exponent for infinite products of

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- Mannino, Antonino** Some Buffon-type geometric probability problems in the Euclidean plane. (Italian. French summary) **95f:60017**
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- On distributions of random closed sets and expected convex hulls. (English summary) **95f:60018**
- see also **Heinrich, Lothar**, **95g:60019**
- (Nagel, Werner)** see **Ambartsumyan, R. V.**; et al., **95d:60021**
- Naus, Joseph** see **Glaz, Joseph**; et al., **95j:60021**
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- Panina, G. Yu.** Many-dimensional combinatorial Ambartsumian's formulae. **95j:60025**
- Peterzoli, G.** Asymptotic formulas for convex hulls of random points. (Italian. Italian summary)
- Resnick, Sidney I.** see **McBeth, Douglas**, **95i:60013**
- Rhee, WanSoo T.** A matching problem and subadditive Euclidean functionals. (English summary) **95d:60024**
- On the fluctuations of simple matching. (English summary) **95f:60019**
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- Talagrand, Michel** The transportation cost from the uniform measure to the empirical measure in dimension ≥ 3 . (English summary) **95j:60026**
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- Addendum: "Buffon noodles". **95g:60021b**
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- Wieacker, John A.** see **Weil, Wolfgang**, **95a:60014**
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- Alexander, John Ralph** The effect of dimension on certain geometric problems of irregularities of distribution. (English summary) **95m:11080**
- Bárány, Imre** (with Buchta, Christian) Random polytopes in a convex polytope, independence of shape, and concentration of vertices. **95g:52005**
- Barne-Delcroix, M. Fr.** Localisation asymptotique des échantillons multidimensionnels. (French summary) [Asymptotic localization of multidimensional samples] **95m:60080**
- Baryshnikov, Yuliy M.** (with Stadje, Wolfgang) An inverse problem for trigonometric polynomials: does the distribution of a homogeneous polynomial in a Gaussian random point define the polynomial? (English summary) **95k:58013**
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- Brombeer, R.** (with Küfer, K.-H.; Sindambiwe, E.) Zur Approximation des Einheitskreises mit zufälligen Polygonen. [On the approximation of the unit circle by random polygons] **95k:52005**
- Buchta, Christian** see **Bárány, Imre**, **95g:52005**
- Campi, Stefano** (with Haas, D.; Weil, Wolfgang) Approximation of zonoids by zonotopes in fixed directions. (English summary) **95c:52003**
- Charalambides, Ch. A.** Success runs in a circular sequence of independent Bernoulli trials. (English summary) **95i:60009**
- Devroye, Luc** (with Zhu, Binhai) Intersections of random line segments. (English summary) **95j:68155**
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- Grenander, Ulf** (with Keenan, Daniel) Understanding variable shapes in 3-D. (English summary)
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- Hsing, Tailen** On the asymptotic distribution of the area outside a random convex hull in a disk. (English summary) **95d:60047**
- Ivchenko, G. I.** Limit theorems in a discrete problem on the covering of a circle. (Russian) (see **95d:60002**)
- Keenan, Daniel** see **Grenander, Ulf**
- Küfer, K.-H.** see **Brombeer, R.**; et al., **95k:52005**
- van Lieshout, M. N. M.** Stochastic annealing for nearest-neighbour point processes with application to object recognition. (English summary) **95c:62093**
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- Papageorgiou, Nikolaos S.** On the conditional expectation and convergence properties of random sets. (English summary) **95i:60037**
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- Ransford, T. J.** Holomorphic processes in Banach spaces and Banach algebras. (English summary) **95g:60060**
- Scheinerman, Edward R.** (with Wilf, Herbert S.) The rectilinear crossing number of a complete graph and Sylvester's "four point problem" of geometric probability. **95k:52006**
- Schneider, Rolf** (with Wieacker, John A.) Integral geometry. **95b:52006**
- An extension of the principal kinematic formula of integral geometry. **95h:52005**

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- Abt, Markus On the product and the sum of random variables with arithmetic and nonarithmetic distributions. (English summary) 95g:60022
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 — (with Ghoudi, Kilani) Une famille de lois bidimensionnelles insolite. (English and French summaries) [A strange family of bivariate distributions] 95a:60016
 — (with Quesada Molina, José Juan; Rodríguez Lallena, José Antonio) De l'impossibilité de construire des lois à marges multidimensionnelles données à partir de copules. (English and French summaries) [On the impossibility of constructing distributions with fixed multivariate marginals using copulas] 95k:60036
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 Golinskii, L. B. (with Chistyakov, G. P.) Order-sharp estimates for the stability of decompositions of the normal distribution in the Lévy metric. (Russian) (see 95d:60004)
 — (with Chistyakov, G. P.) Estimates, sharp in the sense of order, for the stability of decompositions of the normal distribution in the λ -metric. (Russian) 95e:60019
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 Hayfavi, Azize (with Kotz, Samuel; Ostrovskii, I. V.) Analytic and asymptotic properties of Linnik's probability densities. (English and French summaries) 95b:60018
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 Kolchin, A. V. Some generalizations of a Marcinkiewicz-Zygmund theorem. (Russian. Russian summary) 95a:60017
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- Anastassiou, George A. (with Rachev, Svetlozar T.; Yu, Xiang Ming) Multivariate probabilistic wavelet approximation. (English summary) 95j:41029
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 Yu, Xiang Ming *see* Anastassiou, George A.; et al., 95j:41029
 Zinger, A. A. (with Klebanov, L. B.) Characterization of the symmetry of a distribution by moment properties. (Russian) (*see* 95d:60004)

60E07 Infinitely divisible distributions; stable distributions

- Antonets, M. A. (with Shereshevskii, I. A.) Infinitely divisible probability distributions on lattices. (Russian. Russian summary) 95b:60015
 Bendikov, A. Asymptotic formulas for symmetric stable semigroups. 95j:60029
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 — (with Ostrovskii, I. V.) Addendum: "Characteristic functions of a class of elliptical distributions" [J. Multivariate Anal. 49 (1994), no. 1, 164–178; MR 95c:60018]. 95m:60027
 Kryszki, Włodzimierz (with Kałuska, Marek) Some inequalities for characteristic functions. (English and Polish summaries) 95d:60030
 Ostrovskii, I. V. *see* Kotz, Samuel, 95c:60018 and 95m:60027
 Prodinger, Helmut *see* Grabner, Peter J., 95i:60016
 Slud, Eric V. The moment problem for polynomial forms in normal random variables. (English summary) 95c:60019
 Voudouris, Aggeliki A class of compound Poisson distributions and its stochastic derivations. 95d:60031

Items with secondary classifications in 60E10

- Abouammoh, A. M. (with Ali, A. M.; Mashhour, A. F.) On characterizations and variance bounds of discrete α -unimodality. (English summary) 95k:60043
 Ali, A. M. *see* Abouammoh, A. M.; et al., 95k:60043
 Bendikov, A. Asymptotic formulas for symmetric stable semigroups. 95j:60029
 Bercovici, Hari (with Voiculescu, Dan) Free convolution of measures with unbounded support. 95c:46109
 Braverman, M. Sh. A characterization of probability distributions by moments of sums of independent random variables. (English summary) 95d:60026
 Chernyavskii, A. G. A necessary condition for a multidimensional probability law with a Gaussian component to belong to the class I_0 . (Russian. Russian summary) 95b:60016
 Chistyakov, G. P. *see* Golinskii, L. B., 95e:60019
 Gakis, K. G. (with Sivazian, B. D.) A Volterra type integral equation for the characteristic function of the extended compound renewal process with applications. (English summary) 95b:60107
 Golinskii, L. B. (with Chistyakov, G. P.) Estimates, sharp in the sense of order, for the stability of decompositions of the normal distribution in the λ -metric. (Russian) 95e:60019
 Hayfavi, Azize (with Kotz, Samuel; Ostrovskii, I. V.) Analytic and asymptotic properties of Linnik's probability densities. (English and French summaries) 95b:60018
 Keener, Robert W. Quadrature routines for ladder variables. (English summary) 95g:60090
 Koldobskii, A. L. Characterization of measures by potentials. (English summary) 95c:46037
 Kotz, Samuel *see* Hayfavi, Azize; et al., 95b:60018
 Kozubowski, Tomasz J. Representation and properties of geometric stable laws. 95m:60025
 — The inner characterization of geometric stable laws. (English summary) 95j:60030
 Mashhour, A. F. *see* Abouammoh, A. M.; et al., 95k:60043
 McCullagh, Peter Does the moment-generating function characterize a distribution? (English summary) 95b:62017
 Okada, Sohei *see* Ueda, Sei; et al., 95b:62022
 Ostrovskii, I. V. *see* Hayfavi, Azize; et al., 95b:60018
 Sato, Hajime³ *see* Ueda, Sei; et al., 95b:62022
 Shimizu, Kunio *see* Ueda, Sei; et al., 95b:62022
 Sivazian, B. D. *see* Gakis, K. G., 95b:60107
 Ueda, Sei (with Okada, Sohei; Sato, Hajime³; Shimizu, Kunio) Distribution of the sum of uniform random variables with different ranges. (English summary) 95b:62022
 Voiculescu, Dan *see* Bercovici, Hari, 95c:46109
 Watanabe, Toshiro Some examples on unimodality of Lévy processes. 95e:60069
 Yanushkevichius, R. Stability of characterization by record properties. 95f:60021

60E15 Inequalities (Chebyshev, Kolmogorov, etc.)

- Abouammoh, A. M. (with Ali, A. M.; Mashhour, A. F.) On characterizations and variance bounds of discrete α -unimodality. (English summary) **95k:60043**
- (with Mashhour, A. F.) Variance upper bounds and convolutions of α -unimodal distributions. (English summary) **95m:60028**
- Ali, A. M. *see* Abouammoh, A. M.; et al. **95k:60043**
- Alzaid, Abdulhamid A. (with Proschan, Frank) Max-infinite divisibility and multivariate total positivity. (English summary) **95d:60032**
- Armstrong, Thomas E. Chebyshev inequalities and comonotonicity. **95d:60033**
- Bassan, Bruno (with Scarsini, Marco) Positive dependence orderings and stopping times. (English summary) **95k:60044**
- Behboodian, Javad Covariance inequality and its applications. (English summary) **95g:60027**
- Bobkov, S. G. Isoperimetric inequalities for distributions of exponential type. (English summary) **95h:60025**
- Boland, Philip J. (with El-Newehi, Emad; Proschan, Frank) Schur properties of convolutions of exponential and geometric random variables. (English summary) **95d:60034**
- Braverman, M. Sh. On some moment conditions for sums of independent random variables. (English summary) **95b:60019**
- Bulinskii, A. V. (with Usmanov, M. R.) A remark on moment inequalities for a sequence of associated variables. (Russian) **95h:60026**
- Inequalities for moments of sums of associated multi-indexed variables. (Russian. Russian summary) **95k:60045**
- Cai, Jun Characterizations of life distributions by moments of extremes and sample mean. (English summary) **95d:60035**
- Cao, Jin Hua *see* Wang, Yue Dong, **95k:60051**
- Danielyan, E. A. (with Tatalyan, K. R.) Generalized Chebyshev inequalities for some classes of distribution functions. **95h:60027**
- Dufour, Jean-Marie (with Hallin, Marc) Improved Eaton bounds for linear combinations of bounded random variables, with statistical applications. (English summary) **95a:60018**
- El-Newehi, Emad *see* Boland, Philip J.; et al. **95d:60034**
- Galambos, Janos (with Lee, Min-Young) Further studies of bivariate Bonferroni-type inequalities. (English summary) **95h:60028**
- Bonferroni-type inequalities in statistics: a survey. (English summary) **95m:60029**
- Grin', A. G. *see* Utev, S. A., **95k:60050**
- Hallin, Marc *see* Dufour, Jean-Marie, **95a:60018**
- Hauke, Jan (with Markiewicz, Augustyn) Comparison of experiments via a group majorization ordering. (English summary) **95i:60017**
- Hitezenko, Pawel (with Kwapien, Stanislaw) On the Rademacher series. **95k:60046**
- Ho, Hwai Chung A note on the exponential bounds for sequences of long-range dependence. (English summary) **95m:60030**
- Jacka, S. D. (with Yor, Marc) Inequalities for nonmoderate functions of a pair of stochastic processes. **95a:60019**
- Jensen, D. R. Matrix extremes and related stochastic bounds. (English summary) **95d:60036**
- Johnson, Roger W. Correction: "A note on variance bounds for a function of a Pearson variate" [Statist. Decisions 11 (1993), no. 3, 273–278; MR 94m:60038].
- Kalashnikov, Vladimir Vyacheslavovich Two-side estimates of geometric convolutions. **95j:60031**
- Kim, Tae Yoon Moment bounds for non-stationary dependent sequences. (English summary) **95g:60028**
- Klass, Michael J. *see* de la Peña, Victor H., **95g:60031**
- Kounias, Stratis (with Sotirakoglou, K.) Upper and lower bounds for the probability that r events occur. (English summary) **95d:60037**
- Krieger, Abba M. (with Rosenbaum, Paul R.) A stochastic comparison for arrangement increasing functions. (English summary) **95h:60029**
- Kwapien, Stanislaw *see* Hitezenko, Pawel, **95k:60046**
- Lee, Min-Young *see* Galambos, Janos, **95h:60028**
- Li, Hai Jun (with Zhu, Haolong) Stochastic equivalence of ordered random variables with applications in reliability theory. (English summary) **95g:60029**
- Liyanage, Liwan (with Shanthikumar, J. George) Allocation through stochastic Schur convexity and stochastic transposition increasingness. (English summary) **95a:60020**
- Mărgăritescu, E. Inequalities of Bonferroni-type for estimating the distribution of extremes. **95h:60030**
- Markiewicz, Augustyn *see* Hauke, Jan, **95i:60017**
- Mashhour, A. F. *see* Abouammoh, A. M.; et al. **95k:60043** and **95m:60028**
- Montgomery-Smith, S. J. *see* de la Peña, Victor H., **95j:60032**
- Olkin, Ingram (with Tong, Yung Liang) Positive dependence of a class of multivariate exponential distributions. (English summary) **95g:60030**
- Pečarić, Josip E. (with Raša, Ion) Some improved inequalities. (Romanian summary) **95j:60032**
- de la Peña, Victor H. A bound on the moment generating function of a sum of dependent variables with an application to simple random sampling without replacement. (English and French summaries) **95k:60047**
- (with Klass, Michael J.) Order-of-magnitude bounds for expectations involving quadratic forms. (English summary) **95g:60031**
- (with Montgomery-Smith, S. J.) Bounds on the tail probability of U -statistics and quadratic forms. **95j:60032**
- Pinelis, Iosif Sharp exponential inequalities for the martingales in the 2-smooth Banach spaces and applications to "scalarizing" decoupling. **95j:60033**
- Prokhorov, Yu. V. Polynomials of random variables that have the gamma distribution. (Russian) **95k:60048**
- Letter to the editors: "Polynomials of normally distributed random variables" [Teor. Veroyatnost. i Primenen. 37 (1992), no. 4, 747–750; MR 94c:60020]. (Russian)
- Proschan, Frank *see* Alzaid, Abdulhamid A., **95d:60032** and Boland, Philip J.; et al., **95d:60034**
- Pukelsheim, Friedrich The three sigma rule. (English summary) **95e:60023**
- Raša, Ion *see* Pečarić, Josip E.
- Rosenbaum, Paul R. *see* Krieger, Abba M., **95h:60029**
- Scarsini, Marco *see* Bassan, Bruno, **95k:60044**
- Shaked, Moshe (with Shanthikumar, J. George) ★ Stochastic orders and their applications. **95m:60031**
- Shanthikumar, J. George *see* Liyanage, Liwan, **95a:60020** and Shaked, Moshe, **95m:60031**
- Sotirakoglou, K. *see* Kounias, Stratis, **95d:60037**
- Tagarand, Michel Some remarks on the Berg-Kesten inequality. **95j:60034**
- The small ball problem for the Brownian sheet. (English summary) **95k:60049**
- Tatalyan, K. R. *see* Danielyan, E. A., **95h:60027**
- Tong, Yung Liang Some recent developments on majorization inequalities in probability and statistics. (English summary) **95d:60038**
- *see also* Olkin, Ingram, **95g:60030**
- Usmanov, M. R. *see* Bulinskii, A. V., **95h:60026**
- Utev, S. A. (with Grin', A. G.) Lower bounds for variances of sums of weakly dependent variables. (Russian. Russian summary) **95k:60050**
- Wang, Yue Dong (with Cao, Jin Hua) Some multivariate DMRL and NBUE definitions based on conditional stochastic order. (English summary) **95k:60051**
- Yor, Marc *see* Jacka, S. D., **95a:60019**
- Zhu, Haolong *see* Li, Hai Jun, **95g:60029**

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- Bapat, R. B. (with Kocher, Subhash C.) On likelihood-ratio ordering of order statistics. (English summary) **95g:62110**
- Bennett, Graham Double dipping: the case of the missing binomial coefficient identities. (English summary) **95i:50002**
- Bondar, James V. Comments on and complements to: *Inequalities: theory of majorization and its applications* [Academic Press, New York, 1979; MR 81b:00002] by A. W. Marshall and I. Olkin. (English summary) **95c:00001**
- Boshuizen, Frans A. Optimal stopping-related inequalities for i.i.d. random variables when the future is discounted. (English summary) **95k:60106**
- Braverman, M. Sh. ★ Independent random variables and rearrangement invariant spaces. (English summary) **95j:60027**
- Bryc, Włodzimierz (with Smoleński, W.) A sensitivity estimate for Boolean functions. (English summary) **95f:94043**
- Burkholder, Donald L. Strong differential subordination and stochastic integration. (English summary) **95h:60085**
- Cadet, V. Une extension des inégalités de Khintchine-Kahane dans les espaces de Banach: quelques applications (d'après D. Ullrich). (English and French summaries) [An extension of Khinchin-Kahane inequalities in Banach spaces: some applications (after D. Ullrich)] **95d:30005**
- Chang, Cheng-Shang (with Yao, David D.) Rearrangement, majorization and stochastic scheduling. (English summary) **95i:90027**
- Chang, Joseph T. Inequalities for the overshoot. (English summary) **95k:60218**
- Chow, Yuan Shih Complete convergence for U -statistics. (English summary) **95a:60033**
- Ebrahimi, Nader On the dependence of structure of multivariate processes and corresponding hitting times. (English summary) **95k:60225**
- Florén, Patrik (with Huuskonen, Taneli) Uniqueness of maximum values in discrete distributions. (English summary) **95e:60011**
- Giesbrecht, N. Bounds for sums of random variables over a Markov chain. (English summary) **95j:60104**
- Giné, Evarist (with Zinn, Joel) On Hoffmann-Jorgensen's inequality for U -processes. **95a:60005**
- Heinkel, Bernard The strong law of large numbers: a weak- I_2 view. (English summary) **95c:60027**
- Hu, Tai Zhong Local monotonicity of probabilities of rectangular regions under bivariate normal distributions. (English and Chinese summaries) **95k:62145**
- Huuskonen, Taneli *see* Florén, Patrik, **95e:60011**
- Kim, Hyun-Chull *see* Kim, Tae-Sung, **95g:60036**
- Kim, Tae-Sung (with Kim, Hyun-Chull) A functional central limit theorem for positively dependent sequences. (English summary) **95g:60036**
- Kocher, Subhash C. *see* Bapat, R. B., **95g:62110**
- Kwapien, Stanislaw A remark on the median and the expectation of convex functions of Gaussian vectors. **95k:60037**
- Ledoux, Michel Inégalités isopérimétriques en analyse et probabilités. (French summary) [Isoperimetric inequalities in analysis and probability theory] **95k:60009**
- Le Gac, B. (with Móricz, Ferenc; Tandori, Károly) A new inequality of Men'shov-Rademacher type and the strong law of large numbers. **95m:60056**
- Li, Gang¹ Multidimensional Lévy inequalities and their applications. (English summary) **95h:60074**
- Lin, Xiao Dong *see* Willmot, Gordon E., **95f:60117**
- Lu, I-Li (with Richards, Donald St. P.) Random discriminants. (English summary) **95g:62027**
- (Marshall, Albert W.) *see* Bondar, James V., **95c:00001**
- Matula, Przemyslaw Some limit theorems for negatively dependent random variables. (English summary) **95g:60037**
- Móricz, Ferenc *see* Le Gac, B.; et al., **95m:60056**
- (Olkin, Ingram) *see* Bondar, James V., **95c:00001**
- Pemanle, Robin (with Peres, Yuval) Domination between trees and application to an explosion problem. (English summary) **95a:60148**
- Peres, Yuval *see* Pemanle, Robin, **95a:60148**
- Peskir, Goran Maximal inequalities of Kahane-Khintchine's type in Orlicz spaces. (English summary) **95b:46049**
- Best constants in Kahane-Khintchine inequalities for complex Steinhaus functions. (English summary) **95m:46037**
- Pinelis, Iosif On a majorization inequality for sums of independent random vectors. (English summary) **95c:60005**
- Richards, Donald St. P. *see* Lu, I-Li, **95g:62027**
- Rio, Emmanuel Inégalités de moments pour les suites stationnaires et fortement mélangées. (English and French summaries) [Moment inequalities for stationary strongly mixing sequences] **95a:60050**

- Shao, Qi Man A note on small ball probability of a Gaussian process with stationary increments. (English summary) **95b:60041**
- Sherman, Robert P. Maximal inequalities for degenerate U -processes with applications to optimization estimators. (English summary) **95i:62007**
- Smoleński, W. *see* Bryc, Włodzisław, **95f:94043**
- Szulga, Jerzy The state of decoupling: a survey. (English summary) **95i:60044**
- Tandori, Károly *see* Le Gac, B.; et al., **95m:60056**
- Willmot, Gordon E. (with Lin, Xiao Dong) Lundberg bounds on the tails of compound distributions. (English summary) **95f:60117**
- Yao, David D. *see* Chang, Cheng-Shang, **95f:90027**
- Zinn, Joel *see* Giné, Evarist, **95a:60005**

60E99 None of the above, but in this section

- Buja, Andreas (with Logan, B. F.; Reeds, J. A.; Shepp, Lawrence A.) Inequalities and positive-definite functions arising from a problem in multidimensional scaling. (English summary) **95a:60021**
- Chrysaphinou, Ourania (with Papastavridis, Stavros G.; Tsapelas, Theodosios) On the waiting time of appearance of given patterns. (English summary) **95k:60052**
- Cuesta, Juan Antonio (with Rüschendorf, Ludger; Tuero-Díaz, A.) Optimal coupling of multivariate distributions and stochastic processes. (English summary) **95c:60020**
- Geluk, J. L. Asymptotic behaviour of the convolution tail of distributions each having a first or second order regularly varying tail. (English summary) **95k:60053**
- Janson, Svante Self-couplings and the concentration function. (English summary) **95a:60022**
- Coupling and Poisson approximation. (English summary) **95c:60021**
- Khomenko, L. P. *see* Kotlyar, V. Yu., **95m:60032**
- Knott, M. (with Smith, C. S.) On a generalization of cyclic monotonicity and distances among random vectors. (English summary) **95i:60018**
- Kotlyar, V. Yu. (with Khomenko, L. P.) A generalization of the NBUAFR property of distribution functions. (Russian. English and Ukrainian summaries) **95m:60032**
- Lin, Gwo Dong On a probabilistic generalization of Taylor's theorem. (English summary) **95d:60039**
- Logan, B. F. *see* Buja, Andreas; et al., **95a:60021**
- Massé, Jean-Claude (with Theodorescu, R.) Halfplane trimming for bivariate distributions. (English summary) **95m:60033**
- Nguyen Thi Hoa *see* Nguyễn Văn Hồ, **95m:60034**
- Nguyễn Văn Hồ (with Nguyen Thi Hoa) Random n -ary sequence and mapping uniformly distributed. (English summary) **95m:60034**
- Ong, S. H. Some stochastic models leading to the convolution of two binomial variables. (English summary) **95m:60035**
- Papastavridis, Stavros G. *see* Chrysaphinou, Ourania; et al., **95k:60052**
- Rachev, Svetlozar T. (with Rüschendorf, Ludger) Solution of some transportation problems with relaxed or additional constraints. (English summary) **95m:60036**
- Reeds, J. A. *see* Buja, Andreas; et al., **95a:60021**
- Rüschendorf, Ludger *see* Cuesta, Juan Antonio; et al., **95c:60020** and Rachev, Svetlozar T., **95m:60036**
- Shepp, Lawrence A. *see* Buja, Andreas; et al., **95a:60021**
- Smith, C. S. *see* Knott, M., **95i:60018**
- Theodorescu, R. *see* Massé, Jean-Claude, **95m:60033**
- Tsapelas, Theodosios *see* Chrysaphinou, Ourania; et al., **95k:60052**
- Tuero-Díaz, A. *see* Cuesta, Juan Antonio; et al., **95c:60020**
- Urbanik, K. Anti-irreducible probability measures. (English summary) **95a:60023**
- Items with secondary classifications in 60E99
- Godrushin, R. L. A formula of full semi-invariants. (English summary) **95f:60119**
- Godbole, Anant P. (with Zhang, Hao) Runs of superimposed Poisson processes. (English summary) **95k:60119**
- Gordon, Louis A stochastic approach to the gamma function. **95k:33003**
- Goulden, I. P. (with Jackson, D. M.) Combinatorial constructions for integrals over normally distributed random matrices. (English summary) **95j:05169**
- Jackson, D. M. *see* Goulden, I. P., **95j:05169**
- Lew, John S. On the Darling-Mandelbrot probability density and the zeros of some incomplete gamma functions. (English summary) **95b:33001**
- Ranošová, Jarmila Sets of determination for parabolic functions on a half-space. (English summary) **95m:35078**
- Siegrist, Kyle Exponential distributions on semigroups. (English summary) **95i:60006**
- Talagrand, Michel Sharper bounds for Gaussian and empirical processes. (English summary) **95a:60064**
- Zhang, Hao *see* Godbole, Anant P., **95k:60119**

60Fxx Limit theorems [see also 28Dxx, 60B12]

60F05 Central limit and other weak theorems

- Adell, José A. (with de la Cal, Jesús) Approximating gamma distributions by normalized negative binomial distributions. (English summary) **95g:60032**
- Adler, André A note on the norming sequence in the central limit theorem. (English summary) **95f:60026**
- Some new limit theorems for random variables barely with or without finite means. (English summary) **95k:60054**
- (with Wittmann, Rainer) Stability of sums of independent random variables. (English summary) **95h:60031**
- Aldous, David J. (with Pitman, J. W.) Brownian bridge asymptotics for random mappings. (English summary) **95k:60055**
- *see also* Biane, Philippe, **95k:60056**
- Arcones, Miguel A. On the weak Bahadur-Kiefer representation for M -estimators. **95j:60035**

- (with Yu, Bin) Central limit theorems for empirical and U -processes of stationary mixing sequences. (English summary) **95a:60024**
- Limits of canonical U -processes and B -valued U -statistics. (English summary) **95d:60040**
- Ardanuy Albájar, Ramón (with Sánchez, A. L.) A vectorial expression for Liapounov's central limit theorem. **95d:60041**
- Awad, Adnan M. Conditional Lévy continuity theorem. (English summary) **95f:60027**
- Babu, Guttu Jogesh (with Bai, Zhi Dong) Edgeworth expansions of a function of sample means under minimal moment conditions and partial Cramér's condition. (English summary) **95m:60037**
- Bai, Zhi Dong *see* Babu, Guttu Jogesh, **95m:60037**
- Barbe, Philippe Limiting distribution of the minimal spacing. (English summary) **95m:60038**
- Barbour, A. D. (with Tavaré, Simon) A rate for the Erdős-Turán law. (English summary) **95g:60033**
- Bentkus, Vidmantas On the asymptotical behavior of the constant in the Berry-Esseen inequality. (English summary) **95d:60042**
- Berger, Arthur W. (with Whitt, Ward) Asymptotics for open-loop window flow control. (English summary) **95h:60032**
- Biane, Philippe Some comments on the paper: "Brownian bridge asymptotics for random mappings" [Random Structures Algorithms 5 (1994), no. 4, 487–512; MR 95k:60055] by D. J. Aldous and J. W. Pitman. **95k:60056**
- Bloznelis, Mindaugas P. Refinements of nonuniform estimates for the rate of convergence to a stable law in a central limit theorem. (Russian) (*see* **95d:60004**)
- Borovskikh, Yu. V. *see* Korolyuk, V. S., **95d:60049**
- Brands, J. J. A. M. *see* Wilms, Roeland Joannes Gerardus, **95a:60031**
- Cacoullos, T. (with Papathanasiou, V.; Utev, S. A.) Variational inequalities with examples and an application to the central limit theorem. (English summary) **95j:60036**
- de la Cal, Jesús *see* Adell, José A., **95g:60032**
- Casati, Giulio (with Girko, V. L.; Molinari, Luca) Equation for limit functions of band random matrices. (English summary) **95d:60043**
- Chan, Terence Dynamics of the McKean-Vlasov equation. (English summary) **95a:60025**
- Chen, Ming Hua The nonuniform Berry-Esseen boundary of linear functions for order statistics and strong approximation. (Chinese)
- Cheng, Zheming (with Lebowitz, Joel L.; Major, Péter) On the number of lattice points between two enlarged and randomly shifted copies of an oval. (English summary) **95j:60037**
- Chernyak, A. I. (with Sztrik, János) Limit theorems for dependent summation schemes. (English summary) **95a:60026**
- Coelho, Zaqueu (with Collet, Pierre) Asymptotic limit law for the close approach of two trajectories in expanding maps of the circle. (English summary) **95g:60034**
- Collet, Pierre *see* Coelho, Zaqueu, **95g:60034**
- Deheuvels, Paul (with Nevzorov, V. B.) Limit laws for K -record times. (English summary) **95c:60024**
- Dikta, Gerhard A note on the rate of convergence of the bootstrap. (English summary) **95g:60035**
- Eisenberg, Bennett (with Stengle, Gilbert; Strang, Gilbert) The asymptotic probability of a tie for first place. (English summary) **95d:60044**
- El-Bassiouny, Ahmed H. Limit theorems for some functionals of random processes generated by a statistical estimate of entropy in a polynomial scheme. (English summary) **95c:60025**
- Espinosa Balderas, Victor Manuel Sums of dependent random variables. Empirical evidence through simulation. (Spanish) (*see* **95i:00014**)
- Finkelstein, Mark (with Tucker, Howard G.; Veeh, Jerry Alan) Convergence of nonrandomly centered random sums. (English summary) **95k:60057**
- (with Kruglov, V. M.; Tucker, Howard G.) Convergence in law of random sums with non-random centering. (English summary) **95i:60019**
- Finnoff, William Law of large numbers for a heterogeneous system of stochastic differential equations with strong local interaction and economic applications. (English summary) **95d:60045**
- Fu, James C. (with Koutras, Markos V.) Poisson approximations for 2-dimensional patterns. (English summary) **95b:60020**
- Fukuyama, Katsui The central limit theorem for Riesz-Raikov sums. (English summary) **95i:60020**
- Gan, Gaoxiong (with Neill, James W.) Convergence criteria for maxima with regularly varying normalizing constants. (English summary) **95e:60026**
- Gänssler, Peter (with Ziegler, Klaus) A uniform law of large numbers for set-indexed processes with applications to empirical and partial-sum processes. **95k:60058**
- Girko, V. L. (with Kirsch, Werner) Limit theorems for band random matrices whose entries have bounded variances. (English summary) **95b:60021**
- (with von Rosen, Dietrich) Asymptotics for the normalized spectral function of matrix quadratic forms. (English summary) **95m:60039**
- *see also* Casati, Giulio; et al., **95d:60043**
- Godbole, Anant P. Applications of the Stein-Chen method to the theory of patterns and runs: an annotated bibliography. (English summary) **95i:60027**
- Goggin, Eimear M. Convergence in distribution of conditional expectations. (English summary) **95i:60021**
- Grams, I. G. On the rate of convergence in the central limit theorem for d -dimensional semimartingales. (English summary) **95d:60046**
- Gribova, N. V. Analogues of the Berry-Esseen inequality for L -statistics. (Russian) (*see* **95d:60004**)
- Grin', A. G. Letter to the editors: "Normalizing sequences in limit theorems for weakly dependent variables" [Teor. Veroyatnost. i Primenen. 36 (1991), no. 2, 285–300; MR 92k:60038]. (Russian)
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- Taksar, Michael I. see Evstigneev, I. V., 95j:90022
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 Zhou, Jian Wei² The moderate Markov property and right continuity of natural filtrations of two-parameter Feller processes. (Chinese. English and Chinese summaries) 95f:60078

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- Ballerini, Rocco A dependent F^α -scheme. (English summary) 95h:60082
 Barne-Delcroix, M. Fr. Localisation asymptotique des échantillons multidimensionnels. (French summary) [Asymptotic localization of multidimensional samples] 95m:60080
 Dorea, C. C. Y. (with Miasaki, E. S.) Asymptotic test for independence of extreme values. 95c:60051
 Grycko, E. Extreme values and tests for randomness. (English summary)
 Imlahi, A. Convergence presque sûre des records. (English summary) [Almost sure convergence of records] 95m:60081
 Kozachenko, Yu. V. (with Oleshko, T. A.) On the distribution of the supremum of square-Gaussian random processes. (Ukrainian. Russian and Ukrainian summaries) 95a:60070
 Malov, S. V. On the independence of sequential ranks. (Russian. English and Russian summaries) 95j:60078
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 Piterbarg, V. I. High excursions for nonstationary generalized chi-square processes. (English summary) 95j:60079
 Resnick, Sidney I. (with Roy, Rishin) Superextremal processes, max-stability and dynamic continuous choice. (English summary) 95g:60065
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 Stepanov, A. V. A characterization theorem for weak records. (Russian. Russian summary) 95k:60127
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- Adke, S. R. Records generated by Markov sequences. (English summary) 95a:60092
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 Browne, Sid (with Bunge, John) Random record processes and state dependent thinning. (English summary) 95k:60118
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 Donoho, David L. Asymptotic minimax risk for sup-norm loss: solution via optimal recovery. (English summary) 95h:62056
 Eisenberg, Bennett (with Stengle, Gilbert; Strang, Gilbert) The asymptotic probability of a tie for first place. (English summary) 95d:60044
 Falk, Michael Efficiency of convex combinations of Pickands estimator of the extreme value index. (English summary) 95h:62085
 Finer, H. (with Roters, Markus) On the limit behaviour of the joint distribution function of order statistics. (English summary) 95i:62051
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 de Haan, Laurens (with Resnick, Sidney I.) Estimating the limit distribution of multivariate extremes. (English summary) 95d:62052
 — (with Resnick, Sidney I.) Estimating the home range. (English summary) 95k:60006
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 Novak, S. Yu. Asymptotic expansions for the maximum of random number of random variables. (English summary) 95j:60042
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- Bagh, S. *see* Nayak, N. N., 95m:60083
 Chen, Bin² The commutativity of the essential infimum and conditional expectation operators. (Chinese. English and Chinese summaries)
 Cifarelli, Donato Michele (with Regazzini, Eugenio) A finitely additive version of the Ferguson-Dirichlet process. (Italian. English summary) (see 95j:00018)
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 de Haan, Laurens (with Resnick, Sidney I.) Random transformations for Poisson processes and sup-integral processes. (English summary) 95a:60073
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 — *see also* Hernández, Michael, 95h:60083
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 — Shift-coupling in continuous time. (English summary) 95g:60066
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- Anastassiou, George A. (with Gonska, Heinz H.) On stochastic global smoothness. (English summary) 95m:41026
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 Bassan, Bruno (with Scarsini, Marco) Positive dependence orderings and stopping times. (English summary) 95k:60044
 Belavkin, V. P. Nondemolition principle of quantum measurement theory. (English summary) 95e:81023
 Bick, Avi (with Willinger, Walter) Dynamic spanning without probabilities. (English summary) 95b:90008
 Christopeit, Norbert (with Musiela, Marek) On the existence and characterization of arbitrage-free measures in contingent claim valuation. (English summary) 95d:90015
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 Ganikhodzhaev, R. N. On the definition of quadratic bistochastic operators. (Russian) 95i:15014
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 Gutiérrez, Cristian E. On the Riesz transforms for Gaussian measures. (English summary) 95c:35013
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 — (with Lévin, V. V.) Processes in discrete schemes (a survey). II. (English summary) 95g:60015b
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- Nguyễn Văn Hồ (with Nguyễn Thị Hoa) Random n -ary sequence and mapping uniformly distributed. (English summary) **95m:60034**
- de la Peña, Victor H. A bound on the moment generating function of a sum of dependent variables with an application to simple random sampling without replacement. (English and French summaries) **95k:60047**
- Rathbun, Stephen L. (with Cressie, Noel) Asymptotic properties of estimators for the parameters of spatial inhomogeneous Poisson point processes. (English summary) **95d:62154**
- Rosiński, Jan On uniqueness of the spectral representation of stable processes. (English summary) **95j:60083**
- Samorodnitsky, Gennady (with Taqqu, Murad S.) ★ Stable non-Gaussian random processes. (English summary) **95f:60024**
- Sawyer, K. R. Continuous time financial models: statistical applications of stochastic processes. (see **95a:62081**)
- Scarsini, Marco see Bassan, Bruno, **95k:60044**
- Sherman, Robert P. Maximal inequalities for degenerate U -processes with applications to optimization estimators. (English summary) **95i:62007**
- Srinivasan, S. K. (with Sudarshan, E. C. G.) Complex measures and amplitudes, generalized stochastic processes and their applications to quantum mechanics. (English summary) **95d:81014**
- Stojaković, Mila Fuzzy random variables, expectation, and martingales. (English summary) **95c:60009**
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- Talagrand, Michel Constructions of majorizing measures, Bernoulli processes and cotype. (English summary) **95j:60008**
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- Thorisson, Hermann The coupling method and regenerative processes. **95g:60125**
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- Willinger, Walter see Cutland, Nigel J.; et al., **95a:90009** and Bick, Avi, **95b:90008**
- Wu, Min The Hausdorff and Bouligand dimensions of the images of a class of random series. (Chinese. Chinese summary) **95k:60096**
- Zapata, August Strong limit theorems for the growth of increments of additive processes in groups. I. Basic properties of globular sets. (English and Polish summaries) **95k:60018**
- Strong limit theorems for the growth of increments of additive processes in groups. II. Additive processes in groups. (English summary) **95k:60019**

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- Burkholder, Donald L. Strong differential subordination and stochastic integration. (English summary) **95b:60085**
- Chiang, Tsu Shu (with Kallianpur, Gopinath; Sundar, P.) Propagation of chaos for systems of interacting neurons. **95d:60092**
- Chou, Ch'ing Sung (with Huang, Mun Min) On the anticipating martingales and Skorokhod integral. I. The Skorokhod integral. **95j:60081**
- Delbaen, Freddy (with Monnat, Pascale; Schachermayer, Walter; Schweizer, Martin; Stricker, Christophe) Inégalités de normes avec poids et fermeture d'un espace d'intégrales stochastiques. (English and French summaries) [Weighted norm inequalities and closedness of a space of stochastic integrals] **95k:60128**
- Delgado, Rosario (with Sanz, Marta) The Hu-Meyer formula for nondeterministic kernels. (English summary) **95b:60062**
- Dorogovtsev, A. A., Jr. A property of trajectories of extended stochastic integrals. (Russian. English and Russian summaries) **95c:60047**
- Gawarecki, Leszek (with Mandrekar, Vidyadhar) Itô-Ramer, Skorokhod and Ogawa integrals with respect to Gaussian processes and their interrelationship. (English summary) **95b:60063**
- Grorud, Axel (with Pontier, Monique) Calcul anticipatif d'ordre deux. (English summary) [Second-order anticipating calculus] **95f:60056**
- Huang, Mun Min see Chou, Ch'ing Sung, **95j:60081**
- Hazareesingh, L. (with Kannan, D.) Stochastic product integral w.r.t. infinite-dimensional semimartingale. III. Strong operator topology case. (English summary) **95i:60045**
- Hu, Yao Zhong (with Long, Hong Wei) Symmetric integral and the approximation theorem of stochastic integral in the plane. (English summary) **95g:60068**
- Ikeda, Nobuyuki (with Kusuoka, Shigeo; Manabe, Shojiro) Lévy's stochastic area formula for Gaussian processes. **95b:60086**
- Imkeller, Peter (with Schmidt, Wolfgang Michael) Stochastic integration for some rough non-adapted processes. (English summary) **95k:60129**
- Johnson, Gerald W. (with Kallianpur, Gopinath) Remarks on the existence of k -traces. (English summary) **95k:60130**
- Jolis, Maria (with Sanz, Marta) Integrator properties of the Skorokhod integral. (English summary) **95k:60131**
- Kallenberg, Olav Multiple Wiener-Itô integrals and a multivariate version of Schoenberg's theorem. (English summary) **95a:60075**
- Kallianpur, Gopinath see Chiang, Tsu Shu; et al., **95d:60092** and Johnson, Gerald W., **95k:60130**
- Kannan, D. see Hazareesingh, L., **95i:60045**
- Kurbanmuradov, O. ★ Существование и непрерывная зависимость решений динамических систем со случайными правыми частями. (Russian. English and Russian summaries) [Existence and continuous dependence of solutions of dynamical systems with random right-hand sides] **95c:60053**
- Kusuoka, Shigeo see Ikeda, Nobuyuki; et al., **95b:60086**
- Lazakovich, N. V. (with Yufereva, I. V.) Approximation of Itô and Stratonovich stochastic integrals in the algebra of generalized random processes. (Russian. English and Russian summaries) **95k:60132**

- Levanony, David (with Schwartz, Adam; Zeitouni, Ofer) Uniform decay and equicontinuity for normalized, parameter dependent, Itô integrals. (English summary) **95d:60093**
- Long, Hong Wei see Hu, Yao Zhong, **95g:60068**
- Lyons, T. J. (with Zhang, Tu Sheng) Decomposition of Dirichlet processes and its application. (English summary) **95b:60064**
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- Pérez-Abreu, Víctor Chaos expansions: a review. (English summary) **95g:60069**
- Pontier, Monique see Grorud, Axel, **95f:60056**
- Protter, Philip (with San Martín, Jaime) General change of variable formulas for semimartingales in one and finite dimensions. (English summary) **95j:60082**
- Rao, M. M. An approach to stochastic integration (a generalized and unified treatment). **95b:60065**
- Rosiński, Jan On uniqueness of the spectral representation of stable processes. (English summary) **95j:60083**
- Russo, Francesco (with Vallois, Pierre) Noncausal stochastic integration for lād lād processes. **95j:60084**
- San Martín, Jaime see Protter, Philip, **95j:60082**
- Sanz, Marta see Delgado, Rosario, **95b:60062** and Jolis, Maria, **95k:60131**
- Schachermayer, Walter see Delbaen, Freddy; et al., **95k:60128**
- Schmidt, Wolfgang Michael On the decomposition of strong Markov continuous semimartingales. (English summary) **95i:60046**
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- Sion, Maurice Stochastic integrals on nuclear spaces. (see **94j:00016**)
- Slud, Eric V. Stability of stochastic integrals under change of filtration. (English summary) **95k:60066**
- Solé, Josep L. (with Utzet, Frederic) The Hu-Meyer formula. A view of the problem with special attention to the Poisson case. (English summary) **95a:60076**
- Stricker, Christophe see Delbaen, Freddy; et al., **95k:60128**
- Sundar, P. see Chiang, Tsu Shu; et al., **95d:60092**
- Takanobu, Satoshi Multiple stochastic integrals appearing in the stochastic Taylor expansions. **95k:60133**
- Üstünel, Ali Süleyman (with Zakai, Moshe) The composition of Wiener functionals with non-absolutely continuous shifts. (English summary) **95c:60054**
- Utzet, Frederic see Solé, Josep L., **95a:60076**
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- Wu, Jiang Lun On multiple Wiener integral expansions for D' -valued nonlinear random functionals. (English summary) **95f:60057**
- Yufereva, I. V. see Lazakovich, N. V., **95k:60132**
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- Zamora Carrillo, Jerónimo Stochastic calculus with local time. (Spanish. Spanish summary) **95b:60087**
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- Zhang, Tu Sheng see Lyons, T. J., **95b:60064**
- Žibaitis, B. (with Mackevičius, Vygirdas) Gaussian approximations of Brownian motion in a stochastic integral. (Russian. Lithuanian summary) **95i:60047**

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- Arimitsu, T. see Saito, Takesi, **95b:81114**
- Aïtall, Stéphane (with Meyer, Paul-André) Interprétation probabiliste et extension des intégrales stochastiques non commutatives. (French summary) [Probabilistic interpretation and extension of noncommutative stochastic integrals] **95m:46107**
- Barnett, Christopher (with Goldstein, Stanislaw; Wilde, Ivan) Quantum stochastic integration and quantum stochastic differential equations. (English summary) **95h:46101**
- Bass, Richard F. (with Khoshnevisan, Davar) Intersection local times and Tanaka formulas. (English and French summaries) **95c:60073**
- Belavkin, V. P. The quantum functional Itô formula has the pseudo-Poisson structure $df(X) = [f(X+B) - f(X)]_0^t dA_{X,t}^*$. (English summary) **95a:81145**
- Chambers, Daniel W. Mixing for multiple Wiener-Itô integral processes. (English summary) **95b:28026**
- Chatelain, Michel (with Stricker, Christophe) On componentwise and vector stochastic integration. (English summary) **95g:90012**
- Christopheit, Norbert (with Musiela, Marek) On the existence and characterization of arbitrage-free measures in contingent claim valuation. (English summary) **95d:90015**
- Föllmer, Hans (with Imkeller, Peter) Anticipation cancelled by a Girsanov transformation: a paradox on Wiener space. (English and French summaries) **95f:60052**
- Franchi, J. Enroulements asymptotiques du mouvement brownien autour de lacets dans une variété riemannienne compacte de dimension 3. (English and French summaries) [Asymptotic windings of Brownian motion around loops in a three-dimensional compact Riemannian manifold] **95j:60130**
- Goggin, Eimear M. Convergence in distribution of conditional expectations. (English summary) **95i:60021**
- Goldstein, Stanislaw see Barnett, Christopher; et al., **95h:46101**
- He, Sheng Wu (with Wang, Jia Gang; Yan, Jia An) ★ Semimartingale theory and stochastic calculus. (English summary) **95d:60080**
- Hida, Takeyuki (with Kuo, Hui-Hsiung; Potthoff, Jürgen; Streit, Ludwig) ★ White noise. (English summary) **95f:60046**
- Hudson, R. L. (with Parthasarathy, Kalyanapuram Rangachari) Chaos map for the universal enveloping algebra of $U(N)$. (English summary) **95i:81127**
- Imkeller, Peter Occupation densities of Stratonovich stochastic differential equations with boundary conditions. (English summary) **95m:60085**
- On the perturbation problem for occupation densities. (English summary) **95c:60043**
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- Janicki, Aleksander (with Weron, Aleksander) Can one see α -stable variables and processes? (English summary) **95b:60017**

- Jolis, Maria (with Sanz, Marta) Doob-Meyer decomposition and integrator properties of the Wong-Zakai anticipating integral. 95f:60060
- Kepich, A. Yu. (with Leonenko, N. N.) On the limit distribution of correlogram of random field with long-range dependence and unknown mean. (English summary) 95k:60059
- Khoshravani, Davar see Bass, Richard F. 95c:60073
- Kryžius, Zigmantas Remarks on multidimensional martingale measures with values in a Hilbert space. (Russian. Lithuanian summary) 95d:60084
- Kuo, Hui-Hsiung see Hida, Takeyuki; et al. 95f:60046
- Leonenko, N. N. (with Li, Zhan Bing; Rybasov, K. V.) On the convergence of solutions of the multidimensional Burgers equation to non-Gaussian distributions. (Ukrainian. English and Russian summaries) — see also Kepich, A. Yu. 95k:60059
- Li, Zhan Bing see Leonenko, N. N.; et al.
- Malric, M. Transformation de Lévy et zéros du mouvement brownien. (English summary) [Lévy transforms and zeros of Brownian motion] 95k:60209
- Meyer, Paul-André see Attal, Stéphane. 95m:46107
- Mikulevičius, Remigius (with Rozovskiĭ, B. L.) Uniqueness and absolute continuity of weak solutions for parabolic SPDEs. (English summary) 95c:60064
- Millet, Annie (with Nualart, David) Support theorems for a class of anticipating stochastic differential equations. (English summary) 95f:60066
- Monat, Pascale (with Stricker, Christophe) Décomposition de Föllmer-Schweizer et fermeture de $G_T(\Theta)$. (English and French summaries) [Föllmer-Schweizer decomposition and closedness of $G_T(\Theta)$] 95a:60061
- Musiela, Marek see Christopeit, Norbert. 95d:90015
- Nualart, David (with Vives, Josep) Smoothness of local time and related Wiener functionals. (English summary) 95d:60129
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- Parthasarathy, Kalyanapuram Rangachari see Hudson, R. L. 95i:81127
- Perkins, Edwin On the martingale problem for interactive measure-valued branching diffusions. (English summary) 95c:60076
- Pothoff, Jürgen see Hida, Takeyuki; et al. 95f:60046
- Ren, Jia Gang On smooth martingales. (English summary) 95c:60048
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- Revuz, Daniel (with Yor, Marc) ★ Continuous martingales and Brownian motion. 95h:60072
- Royette, Bernard Mouvement brownien et espaces de Besov. (English summary) [Brownian motion and Besov spaces] 95c:60042
- Rozovskiĭ, B. L. see Mikulevičius, Remigius. 95c:60064
- Rybasov, K. V. see Leonenko, N. N.; et al.
- Saito, Takeshi (with Arimitsu, T.) Quantum stochastic Liouville equation of Itô type. (English summary) 95b:81114
- Sanz, Marta see Jolis, Maria. 95f:60060
- Schürmann, Michael ★ White noise on bialgebras. 95i:81128
- Schweizer, Martin Approximating random variables by stochastic integrals. (English summary) 95f:60069
- Shcherbakov, V. V. Elements of stochastic analysis for the case of Grassmann variables. II. Stochastic partial differential equations for Grassmann processes. (Russian. English and Russian summaries) 95f:81046
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- Surgailis, Donatas (with Woyczyński, Wojbor A.) Scaling limits of solutions of Burgers' equation with singular Gaussian initial data. (English summary) 95c:60090
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- Abraham, Romain (with Le Gall, Jean-François) Sur la mesure de sortie du super mouvement brownien. (English summary) [The exit measure of super Brownian motion] 95d:60083
- Arai, Asao Supersymmetric extension of quantum scalar field theories. (English summary) 95d:81080
- Bardorff-Nielsen, Ole E. (with Jupp, Peter E.; Kendall, Wilfrid S.) Stochastic calculus, statistical asymptotics, Taylor strings and phyla. (English and French summaries) 95m:62027
- Bensoussan, A. Results on stochastic Navier-Stokes equations. 95h:35172
- Betounes, David Trace operators, Feynman distributions, and multiparameter white noise. (English summary) 95m:60064

- Brekke, Kjell Arne (with Øksendal, Bernt) Optimal switching in an economic activity under uncertainty. (English summary) 95h:60065
- Gitterman, Moshe (with Weiss, George H.) A comment on early-time solutions of the Smoluchowski equation. (English summary) 95a:82084
- Haba, Z. Stochastic interpretation of Feynman path integral. (English summary) 95j:81127
- Semiclassical stochastic representation of the Feynman integral. (English summary) 95k:81083
- Jupp, Peter E. see Barndorff-Nielsen, Ole E.; et al., 95m:62027
- Kendall, Wilfrid S. see Barndorff-Nielsen, Ole E.; et al., 95m:62027
- Kirillov, A. I. Infinite-dimensional analysis and quantum theory as semimartingale calculi. (Russian) 95j:60089
- Lan, Cheng Rong An extension of Einstein's field equation to a stochastic differential equation. (Chinese. Chinese summary) 95j:83012
- Léandre, Rémi Uniform upper bounds for hypoelliptic kernels with drift. 95g:58262
- Le Gall, Jean-François see Abraham, Romain, 95d:60083
- Li, Xue-Mei Properties at infinity of diffusion semigroups and stochastic flows via weak uniform covers. (English summary) 95i:58194
- Menaldi, José-Luis Remarks on estimates for the Green function. 95a:35083
- Ocone, Daniel L. Non-finite-dimensional computability of filters in the presence of entrance boundaries. (English summary) 95f:60049
- Øksendal, Bernt see Brekke, Kjell Arne, 95h:60065
- Röckner, Michael (with Zhang, Tu Sheng) Uniqueness of generalized Schrödinger operators. II. (English summary) 95b:35044
- Ueki, Naomasa Lower bounds for the spectra of Schrödinger operators with magnetic fields. (English summary) 95h:58144a
- Erratum: "Lower bounds for the spectra of Schrödinger operators with magnetic fields". 95h:58144b
- Weiss, George H. see Gitterman, Moshe, 95a:82084
- Zhang, Tu Sheng see Röckner, Michael, 95b:35044

60H99 None of the above, but in this section

- Biscarat, Jean-Claude Almost sure convergence of a class of stochastic algorithms. (English summary) 95b:60074
- Di Paola, M. Stochastic differential calculus. (see 95a:73001)
- Farahmand, K. Level crossings of a random polynomial with hyperbolic elements. (English summary) 95g:60082
- Gambin, Barbara Stochastic homogenization. (English summary) 95i:60055
- Grecksch, W. A stochastic nonlinear evolution equation. (English summary) 95f:60074
- Kang, Soon Ja Heat and Poisson equations associated with number operator in white noise analysis. (English summary) 95h:60100
- Kondrat'ev, Yu. G. (with Streit, Ludwig) Spaces of white noise distributions: constructions, descriptions, applications. I. (English summary) 95m:60095
- Kuo, Hui-Hsiung An introduction to white noise calculus. (see 95i:60003)
- Kusuoka, Shigeo (with Stroock, Daniel W.) Asymptotics of certain Wiener functionals with degenerate extrema. 95i:60056
- Lazakovich, N. V. Stochastic differentials in the algebra of generalized random processes. (Russian. English and Russian summaries) 95j:60099
- Li, Yü Chia Transformation and Wiener-Itô decomposition of white noise functionals. (English summary) 95f:60075
- Litvinov, E. V. Operators of generalized white noise analysis. (Russian and Ukrainian summaries) 95k:60155
- Liu, De Lin see Sheng, Zhao Han; et al., 95k:60156
- Ou, Jing Qi Krylov's estimates for Itô's processes with jumps and the maximum principle of integro-differential equations. (English summary) 95c:60057
- Ponosov, A. V. Functional-differential martingale equations. (Russian. English and Bulgarian summaries)
- Potthoff, Jürgen (with Sundar, P.) Limit theorems for the Donsker delta function: an example. (English summary) 95j:60100
- Sheng, Zhao Han (with Liu, De Lin; Wang, Tao²) A sufficient condition for nonergodicity of a class of nonlinear time series models. (Chinese. English and Chinese summaries) 95k:60156
- Streit, Ludwig see Kondrat'ev, Yu. G., 95m:60095
- Stroock, Daniel W. see Kusuoka, Shigeo, 95i:60056
- Sundar, P. see Potthoff, Jürgen, 95j:60100
- Wang, Tao² see Sheng, Zhao Han; et al., 95k:60156
- Yan, Jia An Products and transforms of white-noise functionals (in general setting). (English summary) 95m:60096

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- Ansel, Jean-Pascal (with Stricker, Christophe) Couverture des actifs contingents et prix maximum. (English and French summaries) [Hedging of contingent claims and maximum price] 95h:60069
- Dermoune, A. Transformation de Fourier-Weyl en dimension infinie. [Fourier-Weyl transform in infinite dimensions] 95f:81044
- Elworthy, K. D. (with Yor, Marc) Conditional expectations for derivatives of certain stochastic flows. 95k:60205
- Ferrante, Marco (with Nualart, David) On the Markov property of a stochastic difference equation. (English summary) 95k:60167
- Gliklikh, Yu. E. A new version of the Lagrangian approach to the fluid mechanics of a viscous incompressible fluid. (Russian. Russian summary) 95i:58036
- Gorbanov, A. V. A generalization of operator stochastic integrals. (Russian. English and Ukrainian summaries) 95h:47026
- Isham, Valerie Statistical aspects of chaos: a review. 95j:58114
- Kadiev, R. I. The admissibility of pairs of spaces with respect to some of the variables for linear stochastic functional-differential equations. (Russian) 95i:34153
- Lascheck, Angelika (with Leukert, Peter; Streit, Ludwig; Westerkamp, Werner) More about Donsker's delta function. (English summary) 95k:60100
- Leukert, Peter see Lascheck, Angelika; et al., 95k:60100

- Mancino, Maria Elvira Quantum stochastic differential equations driven by free noises and dilations of Markovian semigroups. 95h:81045
- Martini, Claude Polynômes harmoniques sur un espace gaussien. (English and French summaries) [Harmonic polynomials on a Gaussian space] 95k:60094
- McLeish, D. L. see Small, Christopher G., 95k:62121
- Morato, Laura M. (with Ugolini, Stefania) Gaussian solutions to the Lagrangian variational problem in stochastic mechanics. (English and French summaries) 95j:81033
- Nualart, David (with Zakai, Moshe) Positive and strongly positive Wiener functionals. (English summary) 95d:60076
- see also Ferrante, Marco, 95k:60167
- Obata, Nobuaki Operator calculus on vector-valued white noise functionals. (English summary) 95c:60040
- Pérez-Abreu, Victor (with Tudor, Constantin) Large deviations for a class of chaos expansions. (English summary) 95h:60041
- Pozhidaev, A. V. Asymptotic normality of fluctuations in the averaging of quasilinear boundary value problems. (Russian. Russian summary) 95k:60197a
- Asymptotic normality of fluctuations under averaging of quasilinear boundary value problems. (English summary) 95k:60197b
- Samorodnitsky, Gennady (with Taqqu, Murad S.) ★ Stable non-Gaussian random processes. (English summary) 95f:60024
- Shreve, S. E. (with Soner, H. M.) Optimal investment and consumption with transaction costs. (English summary) 95g:90013
- Small, Christopher G. (with McLeish, D. L.) ★ Hilbert space methods in probability and statistical inference. (English summary) 95k:62121
- Soner, H. M. see Shreve, S. E., 95g:90013
- Song, Shiqi Some calculations on the conditional densities of well-admissible measures on linear spaces [MR 95b:31011]. (see 95k:31001)
- Some calculations on the conditional densities of well-admissible measures on linear spaces. (English summary) 95b:31011
- Streit, Ludwig see Lascheck, Angelika; et al., 95k:60100
- Stricker, Christophe see Ansel, Jean-Pascal, 95h:60069
- Taqqu, Murad S. see Samorodnitsky, Gennady, 95f:60024
- Tudor, Constantin see Pérez-Abreu, Victor, 95h:60041
- Ugolini, Stefania see Morato, Laura M., 95j:81033
- Wang, Zi Kun¹ Multiparameter infinite-dimensional Ornstein-Uhlenbeck processes and Brownian motion. (Chinese. Chinese summary) 95j:60058
- Westerkamp, Werner see Lascheck, Angelika; et al., 95k:60100
- Yor, Marc see Elworthy, K. D., 95k:60205
- Zakai, Moshe see Nualart, David, 95d:60076
- Zhang, Tu Sheng Characterizations of the white noise test functionals and Hida distributions. (English summary) 95h:60060
- On the convolution of Hida distributions. (English summary) 95j:60060

60Jxx Markov processes

60J05 Markov processes with discrete parameter

- Adke, S. R. Records generated by Markov sequences. (English summary) 95a:60092
- Bhattacharya, Rabi N. (with Lee, Chanho) Ergodicity of nonlinear first order autoregressive models. (English summary) 95j:60101
- Borovkov, A. A. (with Foss, S. G.) Two ergodicity criteria for stochastically recursive sequences. (English summary) 95g:60083
- Derriennic, Yves (with Lin, Michael) Uniform ergodic convergence and averaging along Markov chain trajectories. (English summary) 95i:60057
- Diebolt, Jean (with Guégan, Dominique) Tail behaviour of the stationary density of general nonlinear autoregressive processes of order 1. (English summary) 95a:60093
- Fleischer, Isidore (with Joffe, A.) Ratio ergodicity for non-homogeneous Markov chains in general state spaces. (English summary) 95k:60157
- Foss, S. G. see Borovkov, A. A., 95g:60083
- Guégan, Dominique see Diebolt, Jean, 95a:60093
- Gyllenberg, Mats (with Högnäs, Göran; Koski, Timo) Null recurrence in a stochastic Ricker model. (English summary) 95j:60102
- Högnäs, Göran see Gyllenberg, Mats; et al., 95j:60102
- Hombli, Patrick Sample and moment Lyapunov exponents of discrete linear dynamical systems. (English summary) 95d:60110
- Jaouhari, Salama On the stationary law of a nonlinear autoregressive Markov chain. (English summary) 95k:60158
- Joffe, A. see Fleischer, Isidore, 95k:60157
- Kajser, Thomas On a theorem of Karlin. (English summary) 95h:60101
- Kalashnikov, Vladimir Vyacheslavovich Regeneration and general Markov chains. (English summary) 95k:60159
- Klebaner, F. C. (with Nerman, O.) Autoregressive approximation in branching processes with a threshold. (English summary) 95k:60160
- Korshunov, D. A. Transient phenomena for real-valued Markov chains. (Russian. Russian summary) 95i:60058
- Koski, Timo see Gyllenberg, Mats; et al., 95j:60102
- Lasota, Andrzej (with Yorke, James A.) Lower bound technique for Markov operators and iterated function systems. (English summary) 95c:60058
- Latouche, Guy (with Ramaswami, V.) Expected passage times in homogeneous quasi-birth-and-death processes. (English summary)
- Lee, Chanho see Bhattacharya, Rabi N., 95j:60101
- Lee, Oesook Asymptotics of a class of Markov processes generated by $X_{n+1} = f(X_n) + \varepsilon_{n+1}$. (English summary) 95k:60161
- Lin, Michael see Derriennic, Yves, 95i:60057
- Littlejohn, R. P. A reversibility relationship for two Markovian time series models with stationary exponential tailed distribution. (English summary) 95d:60111
- Liu, Wen (with Yang, Wei Guo¹) Some limit theorems for countable nonhomogeneous Markov chains. (Chinese. English summary)

- Meyn, Sean P. (with Tweedie, Richard L.) ★ Markov chains and stochastic stability. (English summary) 95j:60103
- Nerman, O. see Klebaner, F. C., 95k:60160
- Ramaswami, V. see Latouche, Guy
- Toujar, Dries Stabilité d'un algorithme stochastique. (English and French summaries) [Stability of a stochastic algorithm] 95g:60084
- Tuominen, Pekka (with Tweedie, Richard L.) Subgeometric rates of convergence of f -ergodic Markov chains. (English summary) 95m:60097
- Tweedie, Richard L. Topological conditions enabling use of Harris methods in discrete and continuous time. (English summary) 95d:60112
- see also Meyn, Sean P., 95j:60103 and Tuominen, Pekka, 95m:60097
- Yang, Wei Guo¹ see Liu, Wen
- Yorke, James A. see Lasota, Andrzej, 95c:60058
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- Bartoszek, Wojciech On compact stochastic perturbations of mappings of the unit interval. 95h:28029
- Bouton, Catherine (with Pagès, Gilles) Self-organization and a.s. convergence of the one-dimensional Kohonen algorithm with non-uniformly distributed stimuli. (English summary) 95a:92008
- Diao, Yuanan (with Pippenger, Nicholas; Summers, De Witt) On random knots. (English summary) 95c:57010
- Di Masi, G. B. (with Stettner, Łukasz) On adaptive control of a partially observed Markov chain. (English summary) 95g:93077
- Hernández-Lerma, Onésimo (with Lasserre, Jean Bernard) Weak conditions for average optimality in Markov control processes. (English summary) 95a:93127
- Kazakovich, V. Limit distributions for sums of random variables connected in a finite homogeneous Markov chain. I. (Russian. Lithuanian summary) 95m:60041
- Lasserre, Jean Bernard see Hernández-Lerma, Onésimo, 95a:93127
- Mizumachi, Hitoshi Zero-one law for a Markov chain. 95j:60053
- Mohapl, Jaroslav Mild law of large numbers and its consequences. (English summary) 95b:28013
- Montes-de-Oca, Raúl The average cost optimality equation for Markov control processes on Borel spaces. (English summary) 95b:93183
- Ney, Peter E. (with Nummelin, Esa) Regeneration for chains with infinite memory. (English summary) 95c:60101
- Nualart, David (with Vives, Josep) Smoothness of local time and related Wiener functionals. (English summary) 95d:60129
- Nummelin, Esa see Ney, Peter E., 95c:60101
- Oczkiewicz, Katarzyna Asymptotic stability of Markov operators corresponding to the dynamical systems with multiplicative perturbations. (English summary) 95b:47051
- Pagès, Gilles see Bouton, Catherine, 95a:92008
- Perfekt, Roland Extremal behaviour of stationary Markov chains with applications. (English summary) 95d:60091
- Pinsky, Mark A. Mean exit time from a bumpy sphere. (English summary) 95a:35026
- Pippenger, Nicholas see Diao, Yuanan; et al., 95c:57010
- Polson, Nicholas G. see Roberts, Gareth O., 95f:65023
- Roberts, Gareth O. (with Polson, Nicholas G.) On the geometric convergence of the Gibbs sampler. (English summary) 95f:65023
- (with Smith, A. F. M.) Simple conditions for the convergence of the Gibbs sampler and Metropolis-Hastings algorithms. (English summary) 95f:62021
- Seppäläinen, Timo Large deviations for Markov chains with random transitions. (English summary) 95j:60044
- Smith, A. F. M. see Roberts, Gareth O., 95f:62021
- Stettner, Łukasz see Di Masi, G. B., 95g:93077
- Summers, De Witt see Diao, Yuanan; et al., 95c:57010
- Sunayach, Christian Sur le comportement asymptotique des potentiels d'une chaîne de Markov sur \mathbb{R}^d . (English and French summaries) [On the asymptotic behavior of the potentials of a Markov chain in \mathbb{R}^d] 95k:31011
- de Valk, V. ★ One-dependent processes: two-block factors and non-two-block factors. (English summary) 95b:60056
- Vives, Josep see Nualart, David, 95d:60129

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- Aaronson, Jon (with Keane, Michael S.) Isomorphism of random walks. (English summary) 95k:60162
- (with Liggett, Thomas M.; Picco, Pierre) Equivalence of renewal sequences and isomorphism of random walks. (English summary) 95k:60163
- Al-Eideh, Basil (with Al-Towaiq, M. H.) A problem related to quasi-stationary distributions of Markov chains. (English summary)
- A central limit theorem for absorbing Markov chains with r absorbing states. (English summary)
- Al-Towaiq, M. H. see Al-Eideh, Basil
- Chae, Kyung C. (with Kim, Tae S.) Reversed absorbing Markov chain: A sample path approach. (English summary)
- Chattoadhyay, Rita Non-homogeneous Markov chains with a finite state space and a Doeblin type theorem. (English summary) 95k:60164
- Chen, Lester H. (with Chen, Robert W.; Shepp, Lawrence A.) A note on a probabilistic game. 95k:60165
- Chen, Robert W. see Chen, Lester H.; et al., 95k:60165
- Deng, Ji Xian see Yi, Ju Kui
- Detle, Holger On a generalization of the Ehrenfest urn model. (English summary) 95k:60166
- Doukhan, Paul (with Tsybakov, A. B.) Nonparametric recurrent estimation in nonlinear ARX models. (Russian. Russian summary) 95d:60113
- Ferrante, Marco (with Nualart, David) On the Markov property of a stochastic difference equation. (English summary) 95k:60167
- Ferrari, Pablo Augusto (with Martínez, Servet A.) Quasi-stationary distributions: continued fraction and chain sequence criteria for recurrence. (English summary) 95g:60085
- Frignesi, Arnoldo Assessing convergence of Markov chain Monte Carlo methods. (English summary) (see 95j:62003)
- Giesbrecht, N. Bounds for sums of random variables over a Markov chain. (English summary) 95j:60104
- Glynn, Peter W. Importance sampling for Markov chains: asymptotics for the variance. (English summary) 95c:60065
- Gould, Jeremy D. (with Handelman, David E.) Positive multiplications in difference equations. (English summary) 95m:60098
- Hajnal, John Shuffling with two matrices. 95a:60094
- Handelman, David E. see Gould, Jeremy D., 95m:60098
- Hartfiel, D. J. (with Seneta, Eugene) On the theory of Markov set-chains. (English summary) 95m:60099
- Homogeneous Markov chains with bounded transition matrix. (English summary) 95a:60095
- He, Ke Ning see Yan, Zhi Bin; et al.
- He, Qi-Ming Differentiability of the matrices R and G in the matrix-analytic method. (English summary) 95i:60059
- den Hollander, Frank (with Thorisson, Hermann) Shift-coupling and a zero-one law for random walk in random environment. (English summary) 95b:60075
- Ingrassia, Salvatore On the rate of convergence of the Metropolis algorithm and Gibbs sampler by geometric bounds. (English summary) 95d:60114
- Kadota, Yoshinobu Sufficient conditions for continuity of stationary absolute probabilities in countable state Markov chains. 95f:60076
- Kalpaizidou, Sofia Rotational representations of transition matrix functions. (English summary) 95b:60102
- Keane, Michael S. see Aaronson, Jon, 95k:60162
- Kim, Tae S. see Chae, Kyung C.
- Komashko, O. V. On the stability of Markov chains generated by piecewise-linear transformations. (Ukrainian. Russian and Ukrainian summaries) 95b:60076
- Korshunov, D. A. Transient phenomena for real-valued Markov chains. (Russian) 95k:60168
- Kotler, Mitchell Drift vectors are not sufficient to determine recurrence of a Markov chain on \mathbb{Z}_+^d . (English summary) 95b:60103
- Krafft, Olaf (with Schaefer, Martin) Mean passage times for tridiagonal transition matrices and a two-parameter Ehrenfest urn model. (English summary) 95b:60077
- Lasserre, Jean Bernard A formula for singular perturbations of Markov chains. (English summary) 95c:60059
- Ledoux, James (with Rubino, Gerardo; Sericola, Bruno) Exact aggregation of absorbing Markov processes using the quasi-stationary distribution. (English summary) 95b:60078
- Li, Jin Liang (with Ling, De Yun) A note on Meyer's stochastic complement and uncoupling Markov chains. (English summary) 95d:60115
- Liggett, Thomas M. see Aaronson, Jon; et al., 95k:60163
- Ling, De Yun see Li, Jin Liang, 95d:60115
- Liu, Bo Lian Supremum for ergodic exponents of doubly stochastic primitive matrices of order n . (English summary) 95i:60060
- Liu, Guo Xin (with Liu, Wen) On the strong law of large numbers for functionals of countable nonhomogeneous Markov chains. (English summary) 95d:60116
- Liu, Wen see Liu, Guo Xin, 95d:60116
- Martínez, Servet A. see Ferrari, Pablo Augusto, 95g:60085
- (McDonald, David R.) see Gould, Jeremy D., 95m:60098
- Melas, V. B. Branching technique for Markov chain simulation (finite state case). (English summary) 95c:60079
- Men'shikov, M. V. Constructive methods in Markov chain theory. (English summary) 95j:60105
- Meyn, Sean P. (with Tweedie, Richard L.) The Doeblin decomposition. (English summary) 95a:60096
- (with Tweedie, Richard L.) State-dependent criteria for convergence of Markov chains. (English summary) 95b:60080
- (with Tweedie, Richard L.) Computable bounds for geometric convergence rates of Markov chains. (English summary) 95j:60106
- Móri, Tamás F. Asymptotic joint distribution of cover times. (English summary) 95j:60107
- Moskaltsova, N. V. (with Shurenkov, V. M.) On the potential of ergodic Markov chains. (Ukrainian. English and Ukrainian summaries) 95g:60086
- Neuts, Marcel F. An interesting random walk on the nonnegative integers. (English summary) 95d:60117
- Nualart, David see Ferrante, Marco, 95k:60167
- Phatarfod, R. M. On the transition probabilities of the move-to-front scheme. (English summary) 95c:60060
- Picco, Pierre see Aaronson, Jon; et al., 95k:60163
- Rogers, L. C. G. Fluid models in queueing theory and Wiener-Hopf factorization of Markov chains. (English summary) 95k:60169
- Rosenthal, Jeffrey S. Rates of convergence for data augmentation on finite sample spaces. (English summary) 95b:60081
- Ross, Kenneth Allen (with Xu, Daming) Hypergroup deformations and Markov chains. (English summary) 95j:60108
- Rubino, Gerardo see Ledoux, James; et al., 95b:60078
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- Seneta, Eugene see Hartfiel, D. J., 95m:60099
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- Shepp, Lawrence A. see Chen, Lester H.; et al., 95k:60165
- Shurenkov, V. M. see Moskaltsova, N. V., 95g:60086
- Sin'kevich, D. V. (with Trush, N. N.) Computation of the higher-order moments of aggregated frequencies of states of a homogeneous Markov chain for a multinomial scheme. (Russian. English and Russian summaries)
- Thorisson, Hermann see den Hollander, Frank, 95b:60075
- Trush, N. N. see Sin'kevich, D. V.
- Tsybakov, A. B. see Doukhan, Paul, 95d:60113
- Tweedie, Richard L. see Meyn, Sean P., 95a:60096; 95b:60080 and 95j:60106

- Wang, Yong¹ *see* Yan, Zhi Bin; et al.
 Xu, Daming *see* Ross, Kenneth Allen, 95j:60108
 Xu, Guang Hui¹ (with Yuan, Xue Ming) Transient solutions for denumerable-state Markov processes. (English summary) 95b:60082
 Yan, Zhi Bin (with Wang, Yong¹; He, Ke Ning) A left infinitely near 0-1 law for Markov chains. (Chinese)
 Yeung, Raymond W. (with Sengupta, Bhaskar) Matrix product-form solutions for Markov chains with a tree structure. (English summary) 95k:60170
 Yi, Ju Kai (with Deng, Ji Xian) Ergodicity of vector self-excited threshold autoregressive (VSETAR) models. (Chinese. English and Chinese summaries)
 Yuan, Xue Ming *see* Xu, Guang Hui¹, 95b:60082

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- Arnold, Ludwig (with Gundlach, Volker Matthias; Demetrius, Lloyd) Evolutionary formalism for products of positive random matrices. (English summary) 95h:28028
 Artzrouni, Marc (with Li, Xuefeng) A note on the coefficient of ergodicity of a column-allowable nonnegative matrix. (English summary) 95m:15031
 Berman, Abraham (with Plemmons, Robert J.) ★ Nonnegative matrices in the mathematical sciences. 95e:15013
 Borovkov, A. A. (with Schassberger, Rolf) Ergodicity of a polling network. (English summary) 95e:60089
 Cerf, Raphaël Asymptotic convergence of a genetic algorithm. (English and French summaries) 95d:90094
 Choi, Man Duen (with Ruskai, Mary Beth; Seneta, Eugene) Equivalence of certain entropy contraction coefficients. (English summary) 95h:94008
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 Dekker, R. (with Hordijk, Arie; Spieksma, F. M.) On the relation between recurrence and ergodicity properties in denumerable Markov decision chains. (English summary) 95d:90095
 Demetrius, Lloyd *see* Arnold, Ludwig; et al., 95h:28028
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 Feigin, Paul D. Inference and martingale estimating equations for stochastic processes on a semigroup. (English summary) 95d:62134
 Frieze, Alan M. (with Kannan, Ravi; Polson, Nicholas G.) Sampling from log-concave distributions. (English summary) 95b:60105a
 — (with Kannan, Ravi; Polson, Nicholas G.) Correction: "Sampling from log-concave distributions". 95b:60105b
 Gail, H. R. (with Hantler, S. L.; Konheim, A. G.; Taylor, B. A.) An analysis of a class of telecommunications models. (English summary) 95m:60139
 Gelfand, Alan E. (with Sahu, Sujit K.) On Markov chain Monte Carlo acceleration. (English summary) 95f:65020
 Glynn, Peter W. Poisson's equation for the recurrent $M/G/1$ queue. (English summary) 95m:60140
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 Helterbrand, Jeffrey D. (with Cressie, Noel; Davidson, Jennifer L.) A statistical approach to identifying closed object boundaries in images. (English summary) 95m:60079
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 Ipsen, Ilse C. F. (with Meyer, Carl D.) Uniform stability of Markov chains. (English summary) 95b:65110
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 Kerov, S. V. The Plancherel growth of Young diagrams and the asymptotics of alternating sequences. (Russian) 95f:11014
 Khas'minskii, R. Z. (with Lazareva, B.; Stapleton, J.) Some procedures for state estimation of a hidden Markov chain with two states. (English summary) 95m:62180
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 Lazareva, B. *see* Khas'minskii, R. Z.; et al., 95m:62180
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 Lin, Zheng Yan (with Wang, Yao Hong) Limit theorems on multi-state Markov chains. (English summary) 95m:60042
 Liu, De Lin *see* Sheng, Zhao Han; et al., 95k:60156
 Liu, Wen (with Yang, Wei Guo¹) Some limit theorems for countable nonhomogeneous Markov chains. (Chinese. English summary)
 Malyshev, V. A. Stabilization laws in the evolution of a random string. (Russian. Russian summary) 95j:60155
 Melas, V. B. Optimal simulation design by branching technique. (English summary) 95e:65013
 Meyer, Carl D. Sensitivity of the stationary distribution of a Markov chain. (English summary) 95i:65192
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Tsar'kov, E. F. (with Yasinskii, V. K.) The second Lyapunov method for stochastic differential-functional equations taking into account Poisson perturbations. (English summary) 95m:34149

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- Varadhan, S. R. S. Regularity of self-diffusion coefficient. 95k:60254
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60J27 Markov chains with continuous parameter

- Bassan, Bruno see Orsingher, Enzo, 95f:60083
 Chen, An Yue (with Xiao, Guo Neng; Zhou, Sheng Sheng) Uniqueness of a class of Q -processes. (Chinese. English and Chinese summaries) 95g:60093
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 Fu, Michael C. (with Hu, Jian-Qiang) Smoothed perturbation analysis derivative estimation for Markov chains. (English summary) 95f:60081
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 — see also Nair, M. G., 95g:60095a and 95g:60095b
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 Dempster, M. A. H. (with Ye, Jane Juan-Juan) Necessary and sufficient optimality conditions for control of piecewise deterministic Markov processes. (English summary) 95d:90096
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 Gani, Joseph Mark (with Haynatzki, Gleb R.) A note on the death process with a random parameter. (English summary) 95j:60134
 Granovsky, Boris L. (with Rozov, Liat) On transient behaviour of a nearest neighbour birth-death process on a lattice. (English summary) 95c:60096
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- Ledoux, James (with Rubino, Gerardo; Sericola, Bruno) Exact aggregation of absorbing Markov processes using the quasi-stationary distribution. (English summary) 95b:60078
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 Voit, Michael Central limit theorems for Markov processes associated with Laguerre polynomials. (English summary) 95g:60038
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- Bertoin, Jean Increase of stable processes. (English summary) 95g:60096
 — On the local rate of growth of Lévy processes with no positive jumps. (English summary) 95k:60184
 Choi, Gyeong Suck Criteria for recurrence and transience of semistable processes. 95h:60111
 Evans, Steven N. Multiplicities of a random sausage. (English and French summaries) 95i:60065
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 Watanabe, Toshiro Some examples on unimodality of Lévy processes. 95c:60069

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 Bendikov, A. Asymptotic formulas for symmetric stable semigroups. 95j:60029
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 Marcus, Michael B. (with Rosen, Jay) Φ -variation of the local times of symmetric Lévy processes and stationary Gaussian processes. 95g:60102
 — (with Rosen, Jay) Laws of the iterated logarithm for the local times of recurrent random walks on \mathbb{Z}^2 and of Lévy processes and random walks in the domain of attraction of Cauchy random variables. (English and French summaries) 95k:60176
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60J35 Transition functions, generators and resolvents

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- Accardi, Luigi (with Rozelli, P.; Smolyanov, O. G.) Brownian motion generated by the Lévy Laplacian. (Russian) **95j:60114**
- (Atanov, Y. A.) see Korolyuk, V. S., **95e:60071**
- Bakry, Dominique Une suite d'inégalités remarquables pour les opérateurs ultrasphériques. (English and French summaries) [A sequence of remarkable inequalities for ultraspherical operators] **95a:60100**
- Ethier, S. N. (with Griffiths, R. C.) The transition function of a Fleming-Viot process. (English summary) **95a:60101**
- Griffiths, R. C. see Ethier, S. N., **95a:60101**
- He, Yuan Jiang The Delphic semigroup structure of positive p -functions. (Chinese. English and Chinese summaries) **95j:60115**
- Hoh, Walter (with Jacob, Niels) Pseudo-differential operators, Feller semigroups and the martingale problem. **95e:60070**
- Jacob, Niels see Hoh, Walter, **95e:60070**
- Kalpaçidou, Sofia An interpretation of the circuit weights representing Markov processes. (English summary) **95d:60123**
- Kopytko, B. I. On the existence of an operator semigroup that describes a Wiener process in a semibounded domain with nonclassical boundary conditions. (Ukrainian. English and Russian summaries) **95c:60069**
- Korolyuk, V. S. (with Turbin, A. F.) ★ Mathematical foundations of the state lumping of large systems. (English summary) **95e:60071**
- Löbus, Jörg-Uwe Linear local operators and multidimensional continuous strong Markov processes with transition densities. **95f:60084**
- Negoro, Akira Stable-like processes: construction of the transition density and the behavior of sample paths near $t = 0$. **95b:60093**
- Podhorodynski, Marian Asymptotical stability of Markov operator. (English summary) **95b:60094**
- Rozelli, P. see Accardi, Luigi; et al., **95j:60114**
- Smolyanov, O. G. see Accardi, Luigi; et al., **95j:60114**
- Tsuchiya, Masaaki Lévy measure with generalized polar decomposition and the associated SDE with jumps. (English summary) **95b:60095**
- Turbin, A. F. see Korolyuk, V. S., **95e:60071**
- Weber, Matthias Time reversal for Markov processes with Lévy measure. (English summary) **95j:60116**
- Xiang, Hong Feng see Yang, Xiang Qun
- Yang, Xiang Qun (with Xiang, Hong Feng) Two-parameter single-point Markov processes. (English and Chinese summaries)
- (Zayats, V. V.) see Korolyuk, V. S., **95e:60071**

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- Accardi, Luigi (with Bogachev, V. I.) The Ornstein-Uhlenbeck process and the Dirichlet form associated to the Lévy Laplacian. (English and French summaries) **95k:60192**
- Beznea, Lucian (with Boboc, Nicu) Duality and biduality for excessive measures. **95k:31016**
- Bhat, B. V. Rajarama (with Parthasarathy, Kalyanapuram Rangachari) Kolmogorov's existence theorem for Markov processes in C^* algebras. (English summary) **95g:46118**
- Bhatt, Abhay G. (with Karandikar, Rajeeva L.) Invariant measures and evolution equations for Markov processes characterized via martingale problems. (English summary) **95d:60120**
- (with Karandikar, Rajeeva L.) Evolution equations for Markov processes: application to the white-noise theory of filtering. (English summary) **95k:60181**
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- Bobrowski, Adam Degenerate convergence of semigroups. (English summary) **95i:47077**
- Bogachev, V. I. see Accardi, Luigi, **95k:60192**
- van Casteren, J. A. (with Demuth, Michael) Some results in stochastic spectral analysis. (English summary) **95m:47068**
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- Chung, Kai Lai Greenian bounds for Markov processes. (English summary) **95d:60125**
- Demuth, Michael (with van Casteren, J. A.) A Hilbert-Schmidt property of resolvent differences of singularly perturbed generalized Schrödinger operators. (English summary) **95c:47052**
- see also van Casteren, J. A., **95m:47068**
- Fitzsimmons, Pat J. (with Hambly, Ben M.; Kumagai, Takashi) Transition density estimates for Brownian motion on affine nested fractals. (English summary) **95j:60122**
- Glover, Joseph (with Rao, Murali; Song, Ren Ming) Generalized Schrödinger semigroups. **95k:60206**
- Hambly, Ben M. see Fitzsimmons, Pat J.; et al., **95j:60122**
- Helbing, Dirk A contracted path integral solution of the discrete master equation. (English summary) **95i:82077**
- Ishikawa, Yasushi Asymptotic behavior of the transition density for jump type processes in small time. (English summary) **95j:60132**
- Jacob, Niels A class of elliptic pseudodifferential operators generating symmetric Dirichlet forms. (English summary) **95c:31004**
- A class of Feller semigroups generated by pseudo-differential operators. **95a:47041**
- Janssen, K. Choquet-type integral representation of polysupermedian measures. (English summary) **95k:31018**
- Kahane, Charles S. The Feynman-Kac formula for a system of parabolic equations. **95i:35127**
- Karandikar, Rajeeva L. see Bhatt, Abhay G., **95d:60120** and **95k:60181**
- Kumagai, Takashi see Fitzsimmons, Pat J.; et al., **95j:60122**
- Liskevich, V. A. (with Semenov, Yu. A.) Some problems on sub-Markovian semigroups. (English summary) (see **95g:81002**)
- Maagli, Habib Perturbation semi-linéaire des résolvantes et des semi-groupes [MR 95j:31010]. (English and French summaries) [Semilinear perturbation of resolvents and semigroups] (see **95k:31001**)
- Nair, M. G. (with Pollett, P. K.) On the relationship between μ -invariant measures and quasi-stationary distributions for continuous-time Markov chains. (English summary)

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- (with Pollett, P. K.) Correction: "On the relationship between μ -invariant measures and quasi-stationary distributions for continuous-time Markov chains". **95g:60095b**
- Parthasarathy, Kalyanapuram Rangachari see Bhat, B. V. Rajarama, **95g:46118**
- Pollett, P. K. On the identification of continuous-time Markov chains with a given invariant measure. (English summary) **95m:60110**
- see also Nair, M. G., **95g:60095a** and **95g:60095b**
- Portenko, N. I. Some perturbations of drift-type for symmetric stable processes. (English summary) **95k:60144**
- Rao, Murali see Glover, Joseph; et al., **95k:60206**
- Saloff-Coste, Laurent Precise estimates on the rate at which certain diffusions tend to equilibrium. **95m:60115**
- Semenov, Yu. A. see Liskevich, V. A., (**95g:81002**)
- Shigekawa, Ichirō Sobolev spaces of Banach-valued functions associated with a Markov process. (English summary) **95e:60055**
- Šikić, Hrvoje Nonlinear perturbations of positive semigroups. **95b:47050**
- Song, Ren Ming see Glover, Joseph; et al., **95k:60206**
- Stroock, Daniel W. ★ Probability theory, an analytic view. (English summary) **95f:60003**
- Taira, Kazuaki On the existence of Feller semigroups with Dirichlet condition. (English summary) **95c:47046**
- Boundary value problems for elliptic pseudo-differential operators. (English summary) **95j:35247**
- Zheng, Wei An A large deviation result for a class of Dirichlet processes. (English summary) **95k:60200**
- Zhou, Xian Yin Resistance dimension, random walk dimension and fractal dimension. (English summary) **95d:60119**

60J40 Right processes

- Boutabia, Hacène (with Maisonneuve, Bernard) Lois conditionnelles des excursions markoviennes. [Conditional distributions of Markov excursions] **95a:60102**
- Eisenbaum, Nathalie (with Kaspi, Haya) A necessary and sufficient condition for the Markov property of the local time process. (English summary) **95d:60124**
- Kaspi, Haya see Eisenbaum, Nathalie, **95d:60124**
- Maisonneuve, Bernard see Boutabia, Hacène, **95a:60102**
- Shih, C. T. Construction of Markov processes and associated multiplicative functionals from given harmonic measures. (English summary) **95f:60085**
- Song, Shiqi A study on Markovian maximality, change of probability and regularity. (English summary) **95k:60185**
- Zhang, Xin Sheng A martingale characterization of general superprocesses. (Chinese. Chinese summary) **95j:60117**

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- Hirsch, Francis (with Song, Shiqi) Propriétés de Markov des processus à plusieurs paramètres et capacités. (English and French summaries) [Markov properties of multiparameter processes and capacities] **95f:60087**
- Marcus, Michael B. A necessary condition for the continuity of linear functionals of Wick squares. **95k:60101**
- Shigekawa, Ichirō (with Taniguchi, Setsuo) Dirichlet forms on infinite-dimensional space and related topics. (Japanese) **95f:31009**
- Song, Shiqi see Hirsch, Francis, **95f:60087**
- Taniguchi, Setsuo see Shigekawa, Ichirō, **95f:31009**

60J45 Probabilistic potential theory [see also 31Cxx, 31D05]

- Aida, Shigeki (with Masuda, Takao; Shigekawa, Ichirō) Logarithmic Sobolev inequalities and exponential integrability. (English summary) **95m:60111**
- (with Shigekawa, Ichirō) Logarithmic Sobolev inequalities and spectral gaps: perturbation theory. (English summary) **95m:60112**
- (with Stroock, Daniel W.) Moment estimates derived from Poincaré and logarithmic Sobolev inequalities. **95f:60086**
- Chen, Zhen Qing (with Zhao, Zhong Xin) Switched diffusion processes and systems of elliptic equations: a Dirichlet space approach. (English summary) **95b:60112**
- Chung, Kai Lai Greenian bounds for Markov processes. (English summary) **95d:60125**
- Fitzsimmons, Pat J. (with Gettoor, R. K.) Some applications of quasi-boundedness for excessive measures. (English summary) **95b:60096**
- Gesztesy, Friedrich (with Zhao, Zhong Xin) Domain perturbations, Brownian motion, capacities, and ground states of Dirichlet Schrödinger operators. **95g:60098**
- Gettoor, R. K. see Fitzsimmons, Pat J., **95b:60096**
- Hirsch, Francis (with Song, Shiqi) Propriétés de Markov des processus à plusieurs paramètres et capacités. (English and French summaries) [Markov properties of multiparameter processes and capacities] **95f:60087**
- Hoh, Walter The martingale problem for a class of pseudo-differential operators. **95g:60099**
- Li, Chun Ming (with Wu, Rong; Liao, Ming) The equilibrium measure and the last-exit distribution. (Chinese. English and Chinese summaries) **95k:60186**
- Liao, Ming see Li, Chun Ming; et al., **95k:60186**
- Mydrecki, A. (with Rybczuk, M.) New Feynman-Kac type formula. (English summary) **95f:60088**
- Masuda, Takao see Aida, Shigeki; et al., **95m:60111**
- Räutü, Gheorghe A dichotomic result on some random sheets and symmetric diffusions. (English summary) **95k:60187**
- Röckner, Michael General theory of Dirichlet forms and applications. **95k:60188**
- Rybczuk, M. see Mydrecki, A., **95f:60088**
- Schmuland, Byron A Dirichlet form primer. **95g:60100**
- Shigekawa, Ichirō see Aida, Shigeki; et al., **95m:60111** and **95m:60112**
- Song, Shiqi Processus d'Ornstein-Uhlenbeck et ensembles $W^{2,2}$ -polaires. (English and French summaries) [Ornstein-Uhlenbeck processes and $W^{2,2}$ -polar sets] **95d:60126**
- Une propriété de l'espérance conditionnelle dans l'espace produit de Wiener. (English and French summaries) [A property of the conditional expectation in the Wiener product

space] 95g:60101

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Albeverio, Sergio (with Kondrat'ev, Yu. G.; Röckner, Michael) An approximate criterium of essential selfadjointness of Dirichlet operators. (English summary) 95i:47044a

— (with Kondrat'ev, Yu. G.; Röckner, Michael) Addendum to the paper: "An approximate criterium of essential selfadjointness of Dirichlet operators". 95i:47044b

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— (with Boboc, Nicu) Duality and biduality for excessive measures. 95k:31016

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— see also Beznea, Lucian, 95k:31016 and 95m:31026

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Fukushima, Masatoshi Two topics related to Dirichlet forms: quasi-everywhere convergences and additive functionals. 95k:31013

Glover, Joseph (with Rao, Murali; Song, Ren Ming) Generalized Schrödinger semigroups. 95k:60206

— (with Rao, Murali; Song, Ren Ming) Erratum: "The gauge theorem for a class of additive functionals of zero energy" [Probab. Theory Related Fields 97 (1993), no. 1-2, 195-210; MR 95d:60136]. 95e:60073

Hsu, Pei A domain monotonicity property of the Neumann heat kernel. 95a:31011

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— (with McDonald, David R.) Asymptotics of absorption probabilities for Ornstein-Uhlenbeck processes. (English summary) 95k:60194

Kalina, Jerzy see Lawrynów, Julian; et al., 95f:32022

Kendall, Wilfrid S. Probability, convexity, and harmonic maps. II. Smoothness via probabilistic gradient inequalities. (English summary) 95j:58036

Kifer, Yuri Harmonic functions on Riemannian manifolds: a probabilistic approach. 95k:58175

Kigami, Jun Laplacians on self-similar sets—analysis on fractals [MR 93k:60003]. (see 95g:00034)

Kondrat'ev, Yu. G. see Albeverio, Sergio; et al., 95i:47044a and 95i:47044b

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- Manton, Kenneth G. (with Woodbury, Max A.; Tolley, H. Dennis) ★ Statistical applications using fuzzy sets. (English summary) 95d:62082
- Tolley, H. Dennis see Manton, Kenneth G.; et al., 95d:62082
- Woodbury, Max A. see Manton, Kenneth G.; et al., 95d:62082

62-03 Historical (must also be assigned at least one classification number from Section 01)

- Bartlett, M. S. Some pre-war statistical correspondence. (English summary) 95k:62001

Items with secondary classifications in 62-03

- Fischer, Hans Dirichlet's contributions to mathematical probability theory. (English, French and German summaries) 95b:01009
- Gani, Joseph Mark Obituary: Edward James Hannan (1921-1994). (Hannan, Edward James) see Gani, Joseph Mark
- Sheinin, O. B. C. F. Gauss and geodetic observations. 95d:86001

62-04 Explicit machine computation and programs (not the theory of computation or programming)

- Finkelstein, Mark (with Scheinberg, Stephen) The storage complexity of some estimators of the median. (English summary) 95c:62002
- Scheinberg, Stephen see Finkelstein, Mark, 95c:62002

Items with secondary classifications in 62-04

- Efron, Bradley (with Tibshirani, Robert J.) ★ An introduction to the bootstrap. (English summary) 95b:62077
- Lange, Kenneth A quasi-Newton acceleration of the EM algorithm. (English summary) 95m:62042
- Tibshirani, Robert J. see Efron, Bradley, 95b:62077

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62-06 Proceedings, conferences, collections, etc.

- (Akaike, Hirotugu) see Proceedings: Conference on the Frontiers of Statistical Modeling: an Informational Approach, 95m:62005; 95m:62006 and 95m:62007
- (Barlow, Richard E.) see Reliability and decision making, 95d:62003
- (Barndorff-Nielsen, Ole E.) see Networks and chaos—statistical and probabilistic aspects, 95j:62004
- (Berger, James O.) see Statistical decision theory and related topics, 95b:62002
- (Bozdogan, Hamparsum) see Proceedings: Conference on the Frontiers of Statistical Modeling: an Informational Approach, 95m:62005; 95m:62006 and 95m:62007
- (Cheeseman, P.) see Selecting models from data, 95f:62004
- (Clarotti, Carlo A.) see Reliability and decision making, 95d:62003
- (Dufour, Jean-Marie) see New developments in time series econometrics, 95m:62004
- (Dutter, R.) see COMPSTAT, 95j:62003
- (Freeman, Peter R.) see Aspects of uncertainty, 95g:62001
- (Grossmann, Wilfried) see COMPSTAT, 95j:62003
- (Gupta, Shanti S.) see Statistical decision theory and related topics, 95b:62002
- (Hand, D. J.) see Artificial intelligence frontiers in statistics, 95f:62003
- (Huškova, Marie) see Asymptotic statistics, 95g:62002
- (Jensen, Jens Ledet) see Networks and chaos—statistical and probabilistic aspects, 95j:62004
- (Kendall, Wilfrid S.) see Networks and chaos—statistical and probabilistic aspects, 95j:62004
- (Lindley, Dennis) see Aspects of uncertainty, 95g:62001
- (Mandl, Petr) see Asymptotic statistics, 95g:62002
- (Oldford, R. W.) see Selecting models from data, 95f:62004
- (Priestley, Maurice B.) see Developments in time series analysis, 95c:62003
- (Raj, Baldev) see New developments in time series econometrics, 95m:62004
- (Smith, A. F. M.) see Aspects of uncertainty, 95g:62001
- (Spizzichino, Fabio) see Reliability and decision making, 95d:62003
- (Subba Rao, T.) see Developments in time series analysis, 95c:62003
- (Tong, Howell) see Dimension estimation and models, 95g:62003

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- ★ Proceedings of the First US/Japan Conference on the Frontiers of Statistical Modeling: an Informational Approach. Vol. 3. 95m:62007
- Priestley, Maurice B. ★ Developments in time series analysis. 95c:62003
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- ★ 1992 Proceedings of the Business and Economic Statistics Section.
- ★ 1992 Proceedings of the Section on Quality and Productivity.
- ★ 1992 Proceedings of the Section on Survey Research Methods.
- ★ 1992 Proceedings of the Social Statistics Section.
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- American Association for Public Opinion Research ★ 1993 Proceedings of the Section on Survey Research Methods. Vol. I.
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- Reliability and Decision Making ★ Reliability and decision making. 95d:62003
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- ★ Proceedings of the First US/Japan Conference on the Frontiers of Statistical Modeling: an Informational Approach. Vol. 3. 95m:62007
- Large sample theory of statistical estimation ★ Large sample theory of statistical estimation. (Japanese) 95m:62003

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- ★ 1993 Proceedings of the Section on Physical and Engineering Sciences.
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Vienna ★ COMPSTAT 1994. 95j:62003

West Lafayette, IN ★ Statistical decision theory and related topics. V. 95b:62002

Workshop:

Artificial Intelligence and Statistics ★ Artificial intelligence frontiers in statistics. 95f:62003

— ★ Selecting models from data. 95f:62004

Items with secondary classifications in 62-06

(Ivchenko, G. I.) *see* Probabilistic problems in discrete mathematics, 95d:60002

(Kelly, F. P.) *see* Probability, statistics and optimisation, 95j:60004

(Maddala, G. S.) *see* Econometrics, 95a:62081

(Rao, C. V.) *see* Econometrics, 95a:62081

(Stanford, John L.) *see* Statistical methods for physical science, 95j:62002

(Vardeman, Stephen B.) *see* Statistical methods for physical science, 95j:62002

(Vinod, H. D.) *see* Econometrics, 95a:62081

(Whittle, Peter) *see* Probability, statistics and optimisation, 95j:60004

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Econometrics ★ Econometrics. 95a:62081

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Whittle, Peter ★ Probability, statistics and optimisation. 95j:60004

Probabilistic problems in discrete mathematics ★ Вероятностные задачи дискретной математики. (Russian) [Probabilistic problems in discrete mathematics] 95d:60002

Probability, statistics and optimisation ★ Probability, statistics and optimisation. 95j:60004

São Paulo ★ Quinto Congresso Latino Americano de Probabilidade e Estatística Matemática. [Fifth Latin American Congress of Probability and Mathematical Statistics] 95f:60021

Statistical methods for physical science ★ Statistical methods for physical science. 95j:62002

62-07 Data analysis

Escoufier, Yves *see* Lavit, Christine; et al.

Gelfand, Alan E. *see* Yiannoutsos, Constantin T., (95b:62002)

Huber, Peter J. Huge data sets. (English summary) (see 95j:62003)

Lavit, Christine (with Escoufier, Yves; Sabatier, Robert; Traissac, Pierre) The ACT (STATIS method). (English summary)

Sabatier, Robert *see* Lavit, Christine; et al.

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Yiannoutsos, Constantin T. (with Gelfand, Alan E.) Subgraph approximations for directed graphical models. (English summary) (see 95b:62002)

Items with secondary classifications in 62-07

Katsevich, A. I. (with Ramm, Alexander G.) A method for finding discontinuities of functions from the tomographic data. (English summary) 95h:44006

Mirkin, B. G. Erratum: "A sequential fitting procedure for linear data analysis models" [J. Classification 7 (1990), no. 2, 167-195; MR 91j:62081].

Ramm, Alexander G. *see* Katsevich, A. I., 95h:44006

62-09 Graphical methods

Buja, Andreas *see* Furnas, George W., 95k:62002

(Carr, Daniel B.) *see* Furnas, George W., 95k:62002

(Elder, John F., IV) *see* Furnas, George W., 95k:62002

Furnas, George W. (with Buja, Andreas) Projection views: dimensional inference through sections and projections. (English summary) 95k:62002

(Oue, Shingo) *see* Furnas, George W., 95k:62002

Roeder, Kathryn A graphical technique for determining the number of components in a mixture of normals. (English summary) 95f:62005

Items with secondary classifications in 62-09

Cook, R. Dennis (with Weisberg, Sanford) ★ An introduction to regression graphics. (English summary) 95g:62135

Weisberg, Sanford *see* Cook, R. Dennis, 95g:62135

62Axx Foundations**62A05 Invariance and group considerations****Items with secondary classifications in 62A05**

Feltz, Carol J. (with Goldin, Gerald A.) Generalization of the Kolmogorov-Smirnov goodness-of-fit test, using group invariance. (English summary) 95b:62059

Goldin, Gerald A. *see* Feltz, Carol J., 95b:62059

Klimov, G. P. (with Rajaonera, Ida C.) Décisions statistiques invariantes: invariance et théorie fiducielle. III. Application aux problèmes de régression multivariés. [Invariant statistical decisions: invariance and fiducial theory. III. Application to multivariate regression problems] 95a:62002

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Rajaonera, Ida C. *see* Klimov, G. P., 95a:62002

Rukhin, Andrew L. Unbiasedness as optimality principle. (English and Polish summaries) 95a:62019

Takada, Yoshikazu Statistical properties of prediction intervals. (Japanese)

62A10 The likelihood approach

Chen, Yuan Yan Statistical inference based on the possibility and belief measures. (English summary) 95h:62004

Clarotti, Carlo A. Decision making: drawbacks of the classical statistics approach. (see 95d:62003)

Forster, Malcolm R. Non-Bayesian foundations for statistical estimation, prediction, and the ravens example. (English summary) 95k:62003

Gombay, Edit (with Horváth, Lajos) An application of the maximum likelihood test to the change-point problem. (English summary) 95c:62004

Horváth, Lajos *see* Gombay, Edit, 95c:62004

Li, Bing A deviance function for the quasi-likelihood method. (English summary) 95m:62008

Piccinato, Ludovico The likelihood principle in reliability analysis. (see 95d:62003)

Items with secondary classifications in 62A10

Cominato, Federica Ancillarity and optimal conditional tests. (Italian. English and Italian summaries) 95k:62048

- Forster, Malcolm R. (with Sober, Elliott) How to tell when simpler, more unified, or less ad hoc theories will provide more accurate predictions. (English summary) 95k:03038
- Gourieroux, Christian (with Monfort, Alain) Pseudo-likelihood methods. (see 95a:62081)
- Hampel, Frank Some thoughts about the foundations of statistics. (English summary) 95c:62006
- Monfort, Alain see Gourieroux, Christian, 95a:62081
- Robert, Christian P. Prior feedback: Bayesian tools for maximum likelihood estimation. (English summary) 95c:62063
- Severini, Thomas A. On the approximate elimination of nuisance parameters by conditioning. (English summary) 95k:62063
- Sober, Elliott see Forster, Malcolm R., 95k:03038

62A15 The Bayesian approach

- Bar-Lev, Shaul K. (with Enis, Peter; Letac, Gérard) Sampling models which admit a given general exponential family as a conjugate family of priors. (English summary) 95m:62009
- Barlow, Richard E. (with Mendel, Max B.) The operational Bayesian approach. 95k:62004
- Bayarri, M. J. (with Berger, James O.) Applications and limitations of robust Bayesian bounds and type II MLE. (English summary) 95g:62004
- Berger, James O. (with Sun, Dongchu) Bayesian analysis for the poly-Weibull distribution. (English summary) 95c:62004
- see also Bayarri, M. J., 95g:62004
- Berti, Patrizia (with Rigo, Pietro) Coherent inferences and improper priors. (English summary) 95c:62005
- Birmihai, Lea R. (with Dey, Dipak K.) Measuring local influence of posterior features under contaminated classes of priors. (English summary) 95c:62005
- Bose, Sudip Bayesian robustness with mixture classes of priors. (English summary) 95k:62005
- Clarotti, Carlo A. Making decision via PRA: the frequentist vs the Bayesian approach. (see 95c:62003)
- Dawid, A. P. The island problem: coherent use of identification evidence. (see 95g:62001)
- Dey, Dipak K. see Gelfand, Alan E., 95a:62001 and Birmihai, Lea R., 95c:62005
- Du, Jing Song see Zhang, Yao Ting, 95g:62005
- Enis, Peter see Bar-Lev, Shaul K.; et al., 95m:62009
- Gabor, George see Qian, Guo Qi; et al., 95h:62005
- Geisser, Seymour ★ Predictive inference. (English summary) 95k:62006
- Gelfand, Alan E. (with Dey, Dipak K.) Bayesian model choice: asymptotics and exact calculations. (English summary) 95a:62001
- (George, Edward I.) see Nelder, J. A., 95j:62006
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- Hill, Bruce M. On Steinian shrinkage estimators: the finite/infinite problem and formalism in probability and statistics. 95m:62010
- Kadane, Joseph B. Several Bayesians: a review. (English summary) 95k:62007
- Kuhavý, Rudolf Can we preserve the structure of recursive Bayesian estimation in a limited-dimensional implementation? (see 95c:93006)
- Letac, Gérard see Bar-Lev, Shaul K.; et al., 95m:62009
- (Makov, Udi E.) see Nelder, J. A., 95j:62006
- Mendel, Max B. see Barlow, Richard E., 95k:62004
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- Pereira, Carlos Alberto de Bragança (with Wechsler, Sergio) On the concept of P -value. (English summary) 95k:62008
- Qian, Guo Qi (with Gabor, George; Gupta, Rajendra P.) On stochastic complexity estimation: a decision-theoretic approach. (English summary) 95h:62005
- Rigo, Pietro see Berti, Patrizia, 95j:62005
- Sivaganesan, Siva Robust Bayesian diagnostics. (English summary) 95b:62003
- (Smith, A. F. M.) see Nelder, J. A., 95j:62006
- Sun, Dongchu see Berger, James O., 95c:62004
- Valencia, Gustavo J. Classical, Bayesian, or empirical Bayesian statistics? (Spanish. Spanish summary) (see 95f:00014)
- Wechsler, Sergio see Pereira, Carlos Alberto de Bragança, 95k:62008
- Zhang, Yao Ting (with Du, Jing Song) Bayesian analysis, likelihood ratio and information. (English summary) 95g:62005

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- Achinstein, Peter Stronger evidence. (English summary) 95i:03047
- Bhattacharya, Samir Kumar (with Saxena, Ashok K.; Chaturvedi, Anoop) A modified Bessel integral with a statistical application. (English summary) 95c:33003
- Brown, Harold I. Reason, judgement and Bayes's law. (English summary) 95i:03048
- Brunner, Lawrence J. (with Lo, Albert Y.) Nonparametric Bayes methods for directional data. (English and French summaries) 95j:62037
- Chaloner, Kathryn Residual analysis and outliers in Bayesian hierarchical models. 95k:62193
- Chaturvedi, Anoop see Bhattacharya, Samir Kumar; et al., 95c:33003
- Coletti, Giulianella (with Gilio, Angelo; Scozzafava, Romano) Comparative probability for conditional events: a new look through coherence. (English summary) 95c:60003
- Comonni, Guido (with Veronese, Piero) Unbiased Bayes estimates and improper priors. (English summary) 95d:62037
- DiCiccio, Thomas J. (with Stern, Steven E.) Frequentist and Bayesian Bartlett correction of test statistics based on adjusted profile likelihoods. (English summary) 95f:62044
- Draper, David Assessment and propagation of model uncertainty. (English summary) 95k:62073
- Festa, Roberto ★ Optimum inductive methods. (English summary) 95i:03049
- Forster, Malcolm R. Non-Bayesian foundations for statistical estimation, prediction, and the ravens example. (English summary) 95k:62003
- Franklin, Allan see Howson, Colin, 95j:03040
- Gilio, Angelo see Coletti, Giulianella; et al., 95c:60003

- Hill, Bruce M. Bayesian forecasting of economic time series. (English summary) 95m:62198
- Hill, Stacy D. (with Spall, James C.) Sensitivity of a Bayesian analysis to the prior distribution. (English summary) 95d:62038
- Howson, Colin (with Franklin, Allan) Bayesian conditionalization and probability kinematics. 95j:03040
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- Kadane, Joseph B. Bayesian decision theory and the legal structure. (see 95g:62001)
- Li, Yuan Zhang (with Saxena, K. M. Lal; Qiang, Wen Jiu) The estimation of prior from Fisher information. (English summary) 95g:62055
- Liseo, Brunero Elimination of nuisance parameters with reference priors. (English summary) 95j:62019
- Lo, Albert Y. see Brunner, Lawrence J., 95j:62037
- (Mortera, Julia) see Pericchi, Luis Raúl, 95f:62056
- Nicolaou, Anna Conditional properties of Bayesian interval estimates. (English summary) 95c:62040
- Norton, John D. The theory of random propositions. (English summary) 95k:03040
- Otte, Richard A solution to a problem for Bayesian confirmation theory. (English summary) 95i:03051
- Pérez, María Eglée see Pericchi, Luis Raúl, 95f:62056
- Pericchi, Luis Raúl (with Pérez, María Eglée) Posterior robustness with more than one sampling model. (English summary) 95f:62056
- Poole, David Lynton see Zhang, Lian Wen; et al., 95i:68133
- Qi, Runping see Zhang, Lian Wen; et al., 95i:68133
- Qiang, Wen Jiu see Li, Yuan Zhang; et al., 95g:62055
- Saxena, Ashok K. see Bhattacharya, Samir Kumar; et al., 95c:33003
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- Scozzafava, Romano see Coletti, Giulianella; et al., 95c:60003
- Spall, James C. see Hill, Stacy D., 95d:62038
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- Vovk, V. G. (with V'yugin, V. V.) Prequential level of impossibility with some applications. (English summary) 95g:62006
- V'yugin, V. V. see Vovk, V. G., 95g:62006
- Zhang, Lian Wen (with Qi, Runping; Poole, David Lynton) A computational theory of decision networks. (English summary) 95i:68133

62A20 The classical approach

Items with secondary classifications in 62A20

- Festa, Roberto ★ Optimum inductive methods. (English summary) 95i:03049

62A30 The fiducial approach

- Góngora, Hortensia The fiducial calculus. (Spanish) (see 95f:00014)
- Hampel, Frank Some thoughts about the foundations of statistics. (English summary) 95c:62006
- Klimov, G. P. (with Rajaonera, Ida C.) Décisions statistiques invariantes: invariance et théorie fiducielle. III. Application aux problèmes de régression multivariés. [Invariant statistical decisions: invariance and fiducial theory. III. Application to multivariate regression problems] 95a:62002
- Rajaonera, Ida C. see Klimov, G. P., 95a:62002

62A99 None of the above, but in this section

- Miñarro, Antonio (with Oller, Josep M.) Some remarks on the individuals-score distance and its applications to statistical inference. (English summary) 95b:62004
- Oller, Josep M. see Miñarro, Antonio, 95b:62004
- Ripley, B. D. Network methods in statistics. (see 95f:60004)
- Severini, Thomas A. Local ancillarity in the presence of a nuisance parameter. (English summary) 95f:62006
- Stone, Richard The assumptions on which causal inferences rest. (English summary) 95f:62007
- Vovk, V. G. (with V'yugin, V. V.) Prequential level of impossibility with some applications. (English summary) 95g:62006
- V'yugin, V. V. see Vovk, V. G., 95g:62006
- Wang, Chamont ★ Sense and nonsense of statistical inference. (English summary) 95g:62007

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- Bouckaert, Remco R. Conditional dependence in probabilistic networks. (English summary) (see 95f:62004)
- Chateaufort, Alain Modeling attitudes towards uncertainty and risk through the use of Choquet integral. (English summary) 95k:90018
- Christensen, Bent Jesper (with Kiefer, Nicholas M.) Local cuts and separate inference. (English summary) 95i:62028
- Deely, John see Lad, Frank, 95g:62001
- Denneberg, Dieter Conditioning (updating) non-additive measures. (English summary) 95c:60004
- Feder, Meir see Weinberger, Marcelo J., 95b:62006
- Gamboa, Fabrice (with Gassiat, Élisabeth) The maximum entropy method on the mean: applications to linear programming and superresolution. (English summary) 95h:42012
- Gassiat, Élisabeth see Gamboa, Fabrice, 95h:42012
- Gilboa, Itzhak (with Schmeidler, David) Additive representations of non-additive measures and the Choquet integral. (English summary) 95g:28007
- Kalai, Ehud (with Lehrer, Ehud) Weak and strong merging of opinions. (English summary) 95j:90030
- Kiefer, Nicholas M. see Christensen, Bent Jesper, 95i:62028

- Kohlas, Jürg (with Monney, Paul-André) Theory of evidence—a survey of its mathematical foundations, applications and computational aspects. (English summary) 95d:60007
- Lad, Frank (with Deely, John) Experimental design from a subjective utilitarian viewpoint. (see 95g:62001)
- Lehrer, Ehud see Kalai, Ehud, 95j:90030
- Lindley, Dennis Foundations. (see 95g:00021)
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- Amahia, G. N.** see **Mukhopadhyay, Parimal**
- Arcos Cebrán, A.** see **Ruiz Espejo, Mariano**
- Arnab, Raghunath** Nonnegative variance estimation in randomized response surveys. (English summary) **95c:62012**
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- Basu, Sujit K.** see **Mukerjee, Rahul**, **95b:62010**
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62Exx Distribution theory [see also 60Exx]

62E10 Characterization and structure theory

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- Bhoj, Dinesh S.** (with Ahsanullah, Mohammad) A test of the equality of the coefficients of variation in a bivariate normal distribution. (English summary) **95k:62158**
- Blacher, R.** Higher order correlation coefficients. (English summary) **95s:62066**
- Cupello, Laura** An inequality involving the incomplete gamma function. (Italian. English summary) **95b:62018**
- Gombay, Edit** (with Horváth, Lajos) An application of the maximum likelihood test to the change-point problem. (English summary) **95c:62004**
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- Kim, Hyune-Ju** Likelihood ratio and cumulative sum tests for a change-point in linear regression. (English summary) **95k:62180**
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- Rao, Calyampudi Radhakrishna** (with Mukerjee, Rahul) Tests based on score statistics: power properties and related results. (English summary) **95k:62135**
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62F04 Small sample properties of tests

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- Huggins, Richard Outlier detection tests based on martingale estimating equations for stochastic processes. (English summary) **95m:62183**
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- Bhandari, Subir Kumar (with Sengupta, Debasis) Least favorable configuration and asymptotic efficiency of multinomial selection procedures. (English summary) **95c:62024**
- (with Ali, M. Masoom) An asymptotically minimax procedure for selecting the t -best multinomial cells. (English summary) **95d:62029**
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- Chen, Pinyuen On choosing among several experimental treatments and a control. (English summary)
- (with Panchapakesan, S.; Sobel, Milton) Selecting among the multinomial losers. (English summary) **95g:62042**
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- Chow, Mo Suk see Fong, Duncan K. H.; et al., **95c:62025**
- DeLong, David M. (with Guirguis, Georges H.; So, Ying C.) Efficient computation of subset selection probabilities with application to Cox regression. (English summary)
- Dhariyal, Ishwari D. (with Misra, Neeraj) Simultaneous selection of extreme populations: a Bayesian approach. (English summary) **95h:62028**
- see also Misra, Neeraj, **95g:62046** and **95h:62031**
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- Gastaldi, Tommaso (with Gupta, Shanti S.) Minimax type procedures for nonparametric selection of the "best" population with partially classified data. (English summary) **95f:62028**
- Giani, Guido Construction of decision procedures for selecting populations. (English summary) (see **95f:62003**)
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- Gupta, Shanti S. (with Liang, Ta-Chen; Rau, Re Bin) Empirical Bayes two-stage procedures for selecting the best Bernoulli population compared with a control. (English summary) **95k:62053**
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- Hyakutake, Hiroto A subset selection procedure for multivariate normal means. (English summary)
- The best component selection procedures for a multivariate exponential distribution. **95g:62044**
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- Liang, Ta-Chen see Gupta, Shanti S.; et al., **95f:62029** and **95k:62053**
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- Liu, Wei* A new sequential procedure with elimination for selecting the best of several normal populations. (English summary)
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- On the conditional probabilities of correctly selecting the best. (English summary) **95m:62038**
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- (with Dhariyal, Ishwari D.) Simultaneous selection of extreme populations: Bayes- P^* and minimax rules. (English summary) **95h:62031**

- (with Singh, G. N.) Erratum: "On the UMVUE for estimating the parameter of the selected exponential population" [J. Indian Statist. Assoc. 31 (1993), no. 1, 61–69; MR 94d:62065].
- (with Dhariyal, Ishwari D.) Non-minimaxity of natural decision rules under heteroscedasticity. (English summary) **95g:62046**
- see also Dhariyal, Ishwari D., **95h:62028**
- Mukerjee, Rahul (with Chatterjee, Kashinath) A search procedure using polychotomies for search linear models with positive error variance. (English summary) **95f:62030**
- Mukhopadhyay, Nitis (with Solanky, Tumulesh K. S.) ★ Multistage selection and ranking procedures. (English summary) **95h:62032**
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- Wu, K. H. (with Cheung, Siu Hung) Subset selection for normal means in a two-way design. (English summary) **95c:62027**
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- Chaturvedi, Ajit (with Gupta, Rahul) Linking the estimation and ranking and selection problems through sequential procedures: the normal case. (English summary) **95h:62141**
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- Gupta, Rahul see Chaturvedi, Ajit, **95h:62141**
- Gupta, Shanti S. (with Liang, Ta-Chen) On empirical Bayes selection rules for sampling inspection. (English summary) **95g:62015**
- Liang, Ta-Chen see Gupta, Shanti S., **95g:62015**
- McDonald, Gary C. Analyzing randomized response data with a binomial selection procedure. (English summary) (see **95h:62002**)
- Mukhopadhyay, Nitis (with Solanky, Tumulesh K. S.) A nonparametric accelerated sequential procedure for selecting the largest center of symmetry. (English summary) **95d:62124**
- (with Datta, Somnath) Replicated piecewise multistage sampling with applications. (English summary) **95h:62144**
- Paulson, Edward Sequential procedures for selecting the best one of K Koopman-Darmois populations. (English summary) **95d:62126**
- Solanky, Tumulesh K. S. see Mukhopadhyay, Nitis, **95d:62124**
- Tseng, Sheng Ts'ang Planning accelerated life tests for selecting the most reliable product. (English summary)

62F10 Point estimation

- Abu-Salih, Muhammad Subhi Minimum variance unbiased estimation of the mean of the Pareto and the power-function distributions. (English summary)
- Ahmad, K. E. Small sample results for a nonlinear discriminant function estimated from a mixture of two Burr type XII distributions. (English summary)
- Ahmed, S. E. Pooling means under uncertain prior information with application to discrete distributions. (English summary) **95d:62030**
- (with Khan, Sohail Munawar; Burney, S. A.) Estimating function of a parameter. (English summary) **95k:62054**
- Alharbi, A. A. G. On the convergence of the Bhattacharyya bounds in the multiparametric case. (English summary) **95k:62055**
- Ali, Mohamed Akkas Estimation of lower order partial derivatives of a higher order response function. (English summary)
- Andrews, David F. see Stafford, James E., **95b:62036**
- Anraku, Kazuo Estimation of odds ratios under order restrictions. (English summary) **95h:62033**
- Antoniadis, Anestis (with Lavergne, C.) An estimating function for a scalar parameter in a covariance operator. (English summary) **95c:62023**
- Arnold, Barry C. (with Castillo, Enrique; Sarabia, José María) Conjugate exponential family priors for exponential family likelihoods. (English summary) **95d:62031**
- Azzam, Mufid M. Maximum likelihood estimates using different experimental schemes. (English summary)
- Balakrishnan, Narayanaswamy Corrigendum to: "Approximate maximum likelihood estimation of the mean and standard deviation of the normal distribution based on type II censored samples" [J. Statist. Comput. Simulation 32 (1989), no. 3, 137–148].
- Bandeon-Roche, Karen Resolution of additive mixtures into source components and contributions: a compositional approach. (English summary) **95h:62034**
- Batchelder, William H. see Hu, Xiangen, **95c:62031**
- Bedrick, Edward J. Maximum-likelihood estimation for the removal method. (English and French summaries) **95f:62031**
- Berger, Roger L. see Casella, George
- Bez, K. see Das, Gitasree
- Blasild, Preben Maximum likelihood estimation in exponential orthogodesic models. (English summary) **95h:62035**
- Bowman, K. O. (with Shenton, L. R.; Karlof, Chris) Estimation problems associated with the three parameter gamma distribution. (English summary)
- Brennan, Troyen A. see Lipsitz, Stuart R.; et al.
- Buhl, Soren L. On the existence of maximum likelihood estimators for graphical Gaussian models. (English summary) **95c:62028**
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- Guo, Jian Hua (with Liang, Zhi Wu) Collapsibility of odds ratios. (Chinese. English and Chinese summaries)
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- Rom, Meir (with Cohen, Ayala) Estimation in the polytomous logistic regression model. (English summary) **95k:62197**
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- Zhang, Ping* On the estimation of prediction errors in logistic regression models. (English summary)

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- Christmann, Andreas Least median of weighted squares in logistic regression with large strata. (English summary) **95e:62035**
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- Enăchescu, Denis (with Ursianu, Emiliana) Optimal choice of critical values for simultaneous tests. (English summary)
- Fujikoshi, Yasunori see Seo, Takashi; et al., **95k:62201**
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- (Cleveland, William S.) see Tukey, John W., **95d:01025**
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- Shamis, Elena Graph-theoretic interpretation of the generalized row sum method. (English summary) **95h:00011**
- Tukey, John W. ★ The collected works of John W. Tukey. Vol. VIII. **95d:01025**
- Zhou, Leping (with Mathew, Thomas¹) Hypotheses tests for variance components in some multivariate mixed models. (English summary) **95f:62091**

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- Duan, Naihua Sensitivity analysis for Box-Cox power transformation model: contrast parameters. (English summary) **95b:62085**
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- (with Shi, Jian Qing) On statistical models for regression diagnostics. (English summary) **95j:62053**
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- (with Li, Guo Ying¹) Asymptotics of the "minimum L_1 -norm" estimates in a partly linear model. (English summary) **95f:62107**
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- Lindsey, J. K. ★ Models for repeated measurements. 95f:62001
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- Ali, H. A.** see Huda, S.
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- Stone, Richard The assumptions on which causal inferences rest. (English summary) 95f:62007
- Suchower, Stephan J. Nonisomorphic complete sets of F -rectangles with prime power dimensions. (English summary) 95k:05034
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- Toman, Blaza (with Gastwirth, Joseph L.) Efficiency robust experimental design and estimation using a data-based prior. (English summary) 95h:62043
- Vakil, Farok (with Parnes, Milton) On the structure of a class of sets useful in nonadaptive group testing. (English summary) 95f:62142
- Wang, Yuan *see* Fang, Kai Tai, 95g:65189

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- Baumler, Marian (with Zacks, S.) Dose escalation schemes for quantal response models based on the MLE. (English summary) 95a:62061
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- Gordon, Louis (with Pollak, Moshe) An efficient sequential nonparametric scheme for detecting a change of distribution. (English summary) 95h:62229
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- Howard, H. C. *see* Govindarajulu, Z., 95i:62069

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- Koell, Christophe Optimalité asymptotique du test de Wald. (English and French summaries) [Asymptotic optimality of the Wald decision rule] 95k:62230
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- Nikiforov, I. V. On the first-order optimality of an algorithm for detecting the change point in the vector case. (Russian. Russian summary) 95d:62125
- *see also* Basseville, Michèle, 95g:62153
- Obreja, George *see* Gheorghe, Florin Cristian
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- Schmitz, Norbert J. ★ Optimal sequentially planned decision procedures. 95d:62127
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- Srivastava, M. S. (with Wu, Yan Hong) Dynamic sampling plan in Shirayev-Roberts procedure for detecting a change in the drift of Brownian motion. (English summary) 95h:62140
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- Berger, James O. *see* Sun, Dongchu, 95g:62181
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- Bhandari, Subir Kumar (with Ali, M. Masoom) An asymptotically minimax procedure for selecting the t -best multinomial cells. (English summary) 95d:62029
- Brodskii, B. E. (with Darkhovskii, B. S.) ★ Nonparametric methods in change-point problems. (English summary) 95d:62068
- Darkhovskii, B. S. *see* Brodskii, B. E., 95d:62068
- El Karoui, Nicole (with Karatzas, Ioannis) Dynamic allocation problems in continuous time. (English summary) 95i:60035
- Handa, B. R. (with Kumar, Rajeev; Tuteja, R. K.) A multiparameter extension of two stage modified shrinkage estimator. (English summary) 95h:62034
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- Kumar, Rajeev *see* Handa, B. R.; et al., 95h:62034
- Liu, Wei A new sequential procedure with elimination for selecting the best of several normal populations. (English summary)
- Martineck, Adam T. Sequential methods for bounding the error in nonparametric regression. (English summary) 95g:62074
- Parmigiani, Giovanni (with Berry, Donald A.) Applications of Lindley information measure to the design of clinical experiments. (*see* 95g:62001)

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Sun, Dongchu (with Berger, James O.) Bayesian sequential reliability for Weibull and related distributions. (English summary) 95g:62181

Szyszkowicz, Barbara Empirical-type processes in weighted metrics and change-point problems. (English summary) 95h:60035

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Yushkevich, A. A. Blackwell optimal policies in a Markov decision process with a Borel state space. (English summary) 95m:90150

62L12 Sequential estimation

Bhandari, Subir Kumar (with Bose, Arup) Corrigenda: "Existence of unbiased estimates in sequential binomial experiments" [Sankhyā Ser. A 52 (1990), no. 1, 127–130; MR 93g:62106]. 95m:62172

Bose, Arup (with Mukhopadhyay, Nitis) Sequential estimation via replicated piecewise stopping number in a two-parameter exponential family of distributions. (English summary) 95m:62173

— (with Mukhopadhyay, Nitis) Sequential estimation by accelerated stopping times in a two-parameter exponential family of distributions. (English summary) 95i:62070

— see also Bhandari, Subir Kumar, 95m:62172

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Chaturvedi, Ajit (with Gupta, Rahul) Linking the estimation and ranking and selection problems through sequential procedures: the normal case. (English summary) 95h:62141

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Christman, Mary C. (with Nayak, Tapan K.) Sequential unbiased estimation of the number of classes in a population. (English summary) 95m:62174

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Fakhre-Zakeri, Issa (with Lee, Sangyeol) Sequential estimation of the mean vector of a multivariate linear process. (English summary) 95m:62175

Govindarajulu, Z. Sequential point and interval estimation of scale parameter of exponential distribution. (English summary) 95m:62176

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Hušková, Marie Some sequential procedures based on regression rank scores. (English summary) 95k:62231

Isogai, Eiichi (with Uno, Chikara) A note on minimum risk point estimation of the variance of a normal population. (English summary) 95c:62091

— (with Uno, Chikara) Sequential estimation of a parameter of an exponential distribution. (English summary) 95h:62142

— see also Uno, Chikara, 95d:62129

Koell, Christophe An optimal procedure for testing hypotheses on càdlàg processes. (English summary) 95h:62143

Koike, Ken-ichi Unbiased estimation for sequential multinomial sampling plans. (English summary) 95c:62086

Kubokawa, Tatsuya Two-stage point estimation with a shrinkage stopping rule. (English summary) 95m:62177

— (with Saleh, A. K. Md. Ehsanes) Two-stage point estimation with a shrinkage stopping rule. (English summary) 95g:62156

Lee, Sangyeol Sequential estimation for the parameters of a stationary autoregressive model. (English summary) 95k:62232

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Magiera, R. Bayes sequential estimation procedures for exponential-type processes. (English summary) 95m:62178

Malinovsky, V. K. Asymptotic expansions in sequential estimation of an autoregressive parameter. (English summary) 95f:62118a

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Morales, Domingo (with Pardo, Leandro; Quesada, Vicente) Sequential estimation of survival functions with a neutral to the right process prior. (English summary) 95h:62097

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— (with Datta, Somnath) Replicated piecewise multistage sampling with applications. (English summary) 95h:62144

— (with Purkayastha, Sumitra) On sequential estimation of the difference of means. (English summary) 95j:62059

— see also Bose, Arup, 95i:62070 and 95m:62173

Nanthakumar, A. (with Govindarajulu, Z.) Risk-efficient estimation of the mean of the logistic response function using the Spearman-Kärber estimator. (English summary) 95h:62145

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Singh, Ram Karan (with Chaturvedi, Ajit) Fixed-size confidence region estimation of a linear function of k -multinomial means. (English and Hindi summaries) 95g:62157

Tahir, Mohamed Sequential estimation of the mean of an exponential family in three stages. (English summary) 95d:62128

— Asymptotically optimal sequential point estimation of the mean of an exponential family. (English summary) 95h:62146

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Items with secondary classifications in 62L12

Aoshima, Makoto Healy's sample size of two-stage procedure in heteroscedastic simultaneous

inference. (English summary) 95c:62061

Greenwood, Priscilla E. (with Shiryaev, A. N.) Asymptotic minimaxity of a sequential estimator for a first order autoregressive model. (English summary) 95f:62131

Gupta, Shanti S. (with Liang, Ta-Chen; Rau, Re Bin) Empirical Bayes two-stage procedures for selecting the best Bernoulli population compared with a control. (English summary) 95h:62053

Höpfner, Reinhard Estimating a parameter in a birth-and-death process model. (English summary) 95h:62152

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Malinovsky, V. K. Asymptotic expansions in sequential estimation for the first-order random coefficient autoregressive model: regenerative approach. (English summary) 95d:62148

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Rekab, Kamel Asymptotic optimality of sequential designs for estimation. (English summary) 95m:62165

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62L15 Optimal stopping [see also 60G40, 90D60]

Chattopadhyay, Manas K. Two-armed Dirichlet bandits with discounting. (English summary) 95m:62179

Sweet, Ted Optimizing a single uncertain selection with recall of observations. (English summary) 95g:62158

Wan, Fang Huan Approximation of optimal stopping of Bayesian sequential tests. (Chinese. English and Chinese summaries)

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Anderson, Robert Frank Discounted replacement, maintenance, and repair problems in reliability. (English summary) 95m:90048

Bose, Arup (with Mukhopadhyay, Nitis) Sequential estimation by accelerated stopping times in a two-parameter exponential family of distributions. (English summary) 95i:62070

Chow, Yuan Shih On the moments of ladder epochs for driftless random walks. (English summary) 95g:60053

Ferguson, Dietmar Nonparametric detection of changepoints for sequentially observed data. (English summary) 95h:62139

Jacka, S. D. (with Lynn, J. R.) Finite-horizon optimal stopping obstacle problems and the shape of the continuation region. (English summary) 95h:60067

Kadison, Richard V. Strategies in the secretary problem. 95g:60054

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Koell, Christophe An optimal procedure for testing hypotheses on càdlàg processes. (English summary) 95h:62143

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Moriguti, Sigeiti Asymptotic theory of selection by relative rank with medium cost. (English summary) 95a:60058

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Schmitz, Norbert J. Minimax strategies for discounted "secretary problems" with interview costs. (English summary) 95j:60065

Woodroffe, Michael (with Lerche, Hans Rudolf; Keener, Robert W.) A generalized parking problem. (English summary) 95m:60072

62L20 Stochastic approximation

Benaim, Michel Un théorème de "shadowing" pour des algorithmes d'approximation stochastique. (English and French summaries) [A "shadowing" theorem for some stochastic approximation algorithms] 95h:62098

Celeux, Gilles (with Diebolt, Jean) A stochastic approximation type EM algorithm for the mixture problem. (English summary) 95d:62130

Chen, Han Fu Asymptotically efficient stochastic approximation. (English summary) 95g:62159

Delyon, Bernard (with Juditsky, Anatoli) Accelerated stochastic approximation. (English summary) 95a:62063

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Dippon, Jürgen (with Fabian, Václav) Stochastic approximation of global minimum points. (English summary) 95i:62072

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Gasparyan, K. V. On stochastic approximation procedures. The martingale approach. (Russian. Armenian summary) 95f:62120

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Juditsky, Anatoli see Delyon, Bernard, 95a:62063

Krasulina, T. P. An estimate for the rate of convergence of the Robbins-Monro process. (Russian. Russian summary) 95a:62064

Le Breton, Alain About Gaussian schemes in stochastic approximation. (English summary) 95c:62087

Li, Gang Almost sure convergence of stochastic approximation procedures. (English summary) 95g:62160

Nazin, A. V. (with Shcherbakov, P. S.) A trajectory averaging method in passive stochastic approximation (a linear algorithm). (Russian. Russian summary) 95d:62131

— (with Shcherbakov, P. S.) Passive stochastic approximation with averaging along the trajectory. (Russian. Russian summary)

— (with Shcherbakov, P. S.) A realizable optimal algorithm for passive stochastic approximation with averaging along a trajectory. (Russian. Russian summary) 95f:62121

Schwabe, Rainer On Bather's stochastic approximation algorithm. (English summary)

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Sorour, El Sayed On the convergence of the dynamic continuous Robbins-Monro procedure. (English summary) 95h:62099

Walk, H. On the asymptotic behaviour of linear learning processes with partial forgetting. (English summary) 95h:62147

- Watanabe, Masafumi Almost sure convergence of RM type stochastic approximation algorithm with the boundedness assumption. (English summary) **95h:62148**
- Yin, Gang George (with Gupta, Ishita) On a continuous time stochastic approximation problem. (English summary) **95e:62092**
- see also Zhu, Yun Min, **95f:62122**
- Zhu, Yun Min (with Yin, Gang George) Stochastic approximation in real time: a pipe line approach. (English summary) **95f:62122**

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- Biscarat, Jean-Claude Almost sure convergence of a class of stochastic algorithms. (English summary) **95b:60074**
- Chong, Edwin K. P. (with Ramadge, Peter J.) Optimal load sharing in soft real-time systems using likelihood ratios. (English summary) **95e:90053**
- Delyon, Bernard (with Juditsky, Anatoli) Stochastic optimization with averaging of trajectories. (English summary) **95d:90044**
- (with Juditsky, Anatoli) Asymptotical study of parameter tracking algorithms. (English summary) **95j:93039**
- Fabian, Václav Comment on: "Some asymptotic results for learning in single hidden-layer feedforward network models" [J. Amer. Statist. Assoc. **84** (1989), no. 408, 1003–1013; MR 92e:62119] by H. White.
- Fierro, Raúl On the weakening of a Kushner-Clark condition for sequential compactness. (English summary) **95a:41009**
- Goldenshluger, A. V. (with Polyak, B. T.) Estimation of regression parameters with arbitrary noise. (English summary) **95g:62137**
- Granichin, O. N. Stochastic approximation under dependent noises, detecting signals and adaptive control. (see **95g:00022**)
- Juditsky, Anatoli see Delyon, Bernard, **95d:90044** and **95j:93039**
- Levine, Arnold see Liukkonen, John R., **95h:90087**
- Liukkonen, John R. (with Levine, Arnold) On convergence of iterated random maps. (English summary) **95h:90087**
- Me'nikov, A. V. On a class of stochastic differential equations arising from the stochastic approximation theory. (English summary) **95d:60098**
- Polyak, B. T. see Goldenshluger, A. V., **95g:62137**
- Ramadge, Peter J. see Chong, Edwin K. P., **95e:90053**
- (White, Halbert) see Fabian, Václav
- Yin, Gang George Integral equations with random perturbations arising from stochastic approximation. (see **95f:00022**)
- Zhiglavskii, A. A. Semiparametric statistical inference in global random search. (English summary) **95b:90066**

62L99 None of the above, but in this section

Items with secondary classifications in 62L99

- Algoet, Paul H. The strong law of large numbers for sequential decisions under uncertainty. (English summary) **95g:60040**
- Arthanari, T. S. see Chakraborty, Ashis Kr.
- Chakraborty, Ashis Kr. (with Arthanari, T. S.) Optimum testing time for software under an exploration model. (English summary)
- Mukhopadhyay, Nitish (with Solanky, Tumulesh K. S.) ★ Multistage selection and ranking procedures. (English summary) **95h:62032**
- Solanky, Tumulesh K. S. see Mukhopadhyay, Nitish, **95h:62032**

62Mxx Inference from stochastic processes

62M02 Markov processes: hypothesis testing

- Azlarov, T. A. (with Byambazav, D.) Asymptotic analysis of distributions of chi-square type statistics for Markov chains. (English summary) **95i:62073**
- Byambazav, D. see Azlarov, T. A., **95i:62073**
- Gottschau, Adam Markov chain models for multivariate binary panel data. (English summary) **95d:62132**
- Kelly, Colleen A test of the Markovian model of DNA evolution. (English and French summaries) **95h:62149**
- Kong, Augustine see Liu, Jun S.; et al., **95d:62133**
- Liu, Jun S. (with Wong, Wing Hung; Kong, Augustine) Covariance structure of the Gibbs sampler with applications to the comparisons of estimators and augmentation schemes. (English summary) **95d:62133**
- Luschgy, Harald (with Rukhin, Andrew L.) Asymptotic properties of tests for a class of diffusion processes: optimality and adaptation. (English summary) **95e:62093**
- Muddapur, M. V. Erratum: "UMPU test for state dependence of a parameter in a linear birth process" [Statist. Probab. Lett. **17** (1993), no. 1, 39–41].
- Polson, Nicholas G. (with Roberts, Gareth O.) Bayes factors for discrete observations from diffusion processes. (English summary) **95i:62074**
- Roberts, Gareth O. see Polson, Nicholas G., **95i:62074**
- Rukhin, Andrew L. see Luschgy, Harald, **95e:62093**
- Wong, Wing Hung see Liu, Jun S.; et al., **95d:62133**

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- de Almeida, Rui Manuel (with Moché, Raymond) Sur la détection d'un signal dans un bruit de Cauchy. (French summary) [Signal detection in a Cauchy noise] **95f:60048**
- Andrews, Donald W. K. The large sample correspondence between classical hypothesis tests and Bayesian posterior odds tests. (English summary) **95h:62026**
- Bhat, B. R. (with Indira Devi, A.) Randomised sequential probability ratio tests for stochastic processes. (English summary) **95h:62136**
- Campbell, Sharyn A. (with Godbole, Anant P.; Schaller, Stephanie) Discriminating between sequences of Bernoulli and Markov-Bernoulli trials. (English summary) **95m:62126**

- Godbole, Anant P. (with Zhang, Hao) Runs of superimposed Poisson processes. (English summary) **95k:60119**
- see also Campbell, Sharyn A.; et al., **95m:62126**
- Indira Devi, A. see Bhat, B. R., **95h:62136**
- McKeague, Ian W. (with Zhang, Mei-Jie) Identification of nonlinear time series from first order cumulative characteristics. (English summary) **95j:62065**
- Moché, Raymond see de Almeida, Rui Manuel, **95f:60048**
- Polson, Nicholas G. (with Roberts, Gareth O.) A utility based approach to information for stochastic differential equations. (English summary) **95h:62007**
- Roberts, Gareth O. see Polson, Nicholas G., **95h:62007**
- Roters, Markus Some remarks on minimax sequential tests for stationary Ornstein-Uhlenbeck processes. (English summary) **95a:62062**
- Schaller, Stephanie see Campbell, Sharyn A.; et al., **95m:62126**
- Su, Yeong Tzay Repeated likelihood ratio tests for transition probabilities of finite Markov chains. (English summary) **95m:62171**
- Suslina, I. A. Minimax detection of a signal for l_p -ellipsoids with a removed l_p -ball. (Russian. Russian summary) **95d:62013**
- Zhang, Hao see Godbole, Anant P., **95k:60119**
- Zhang, Mei-Jie see McKeague, Ian W., **95j:62065**

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- Bhat, B. R. Statistical inference for two-unit repairable systems. (English summary) **95b:62100**
- Dion, J.-P. (with Yanév, N. M.) Statistical inference for branching processes with an increasing random number of ancestors. (English summary) **95h:62150**
- Feigin, Paul D. Inference and martingale estimating equations for stochastic processes on a semigroup. (English summary) **95d:62134**
- Genon-Catalot, V. (with Jacod, Jean) Estimation of the diffusion coefficient for diffusion processes: random sampling. (English summary) **95h:62151**
- Gupta, Rajan (with Lee, Larry) Estimating the discovery rate in a continuous time recapture model. (English summary) **95d:62135**
- Heyde, C. C. A quasi-likelihood approach to estimating parameters in diffusion-type processes. (English summary) **95e:62094**
- Höpfner, Reinhard Estimating a parameter in a birth-and-death process model. (English summary) **95h:62152**
- Jacod, Jean see Genon-Catalot, V., **95h:62151**
- Khas'minskiĭ, R. Z. (with Lazareva, B.; Stapleton, J.) Some procedures for state estimation of a hidden Markov chain with two states. (English summary) **95m:62180**
- Kutoyants, Yu. A. (with Pilibossian, Philippe) On minimum L_1 -norm estimate of the parameter of the Ornstein-Uhlenbeck process. (English summary) **95g:62161**
- (with Pilibossian, Philippe) On minimum uniform metric estimate of parameters of diffusion-type processes. (English summary) **95m:62181**
- Lazareva, B. see Khas'minskiĭ, R. Z.; et al., **95m:62180**
- Lee, Larry see Gupta, Rajan, **95d:62135**
- Levanony, David (with Schwartz, Adam; Zeitouni, Ofer) Recursive identification in continuous-time stochastic processes. (English summary) **95e:62095**
- Maiboroda, R. E. see Vovk, L. B., **95m:62182**
- Parpinel, Francesca Maximum likelihood estimation for Itô processes. (Italian. English and Italian summaries) **95k:62233**
- Pilibossian, Philippe see Kutoyants, Yu. A., **95g:62161** and **95m:62181**
- Shkol'nyi, E. I. Variances of statistical estimates for the parameters of a semi-Markov process with a finite set of states. (Russian. Russian summary) **95h:62101**
- Shwartz, Adam see Levanony, David; et al., **95e:62095**
- Stapleton, J. see Khas'minskiĭ, R. Z.; et al., **95m:62180**
- Vovk, L. B. (with Maiboroda, R. E.) Estimation of the change point for a process of Ornstein-Uhlenbeck type. (Russian. English and Ukrainian summaries) **95m:62182**
- Wang, Jin Bao The parameter estimation of frequency-modulated signals with white noise. (Chinese. English and Chinese summaries) **95i:62153**
- Yanév, N. M. see Dion, J.-P., **95h:62150**
- Zeitouni, Ofer see Levanony, David; et al., **95e:62095**

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- Antoniadis, Anestis (with Grégoire, Gérard) Nonparametric estimation in change-point hazard rate models for censored data: a counting process approach. (English summary) **95f:62061**
- Field, Christopher A. (with Wiens, Douglas P.) One-step M -estimators in the linear model, with dependent errors. (English and French summaries)
- Grégoire, Gérard see Antoniadis, Anestis, **95f:62061**
- Herbst, Tomáš On a semiparametric model for randomly truncated data. (English summary) **95h:62061**
- Levanony, David (with Schwartz, Adam; Zeitouni, Ofer) Uniform decay and equicontinuity for normalized, parameter dependent, Itô integrals. (English summary) **95d:60093**
- Marton, Katalin (with Shields, Paul C.) Entropy and the consistent estimation of joint distributions. (English summary) **95g:94004**
- McKeague, Ian W. (with Zhang, Mei-Jie) Identification of nonlinear time series from first order cumulative characteristics. (English summary) **95j:62065**
- McLeish, D. L. see Small, Christopher G., **95k:62121**
- Schwartz, Adam see Levanony, David; et al., **95d:60093**
- Shields, Paul C. see Marton, Katalin, **95g:94004**
- Small, Christopher G. (with McLeish, D. L.) ★ Hilbert space methods in probability and statistical inference. (English summary) **95k:62121**
- Sriram, T. N. Invalidity of bootstrap for critical branching processes with immigration. (English summary) **95g:62098**
- Wefelmeyer, W. Improving maximum quasi-likelihood estimators. (English summary) **95f:62041**
- Wiens, Douglas P. see Field, Christopher A.
- Zane, Omar Identification of parameters with convergence rate for bilinear stochastic differential equations. (English summary) **95j:93042**
- Zeitouni, Ofer see Levanony, David; et al., **95d:60093**

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62M07 Non-Markovian processes: hypothesis testing

- Huggins, Richard Outlier detection tests based on martingale estimating equations for stochastic processes. (English summary) 95m:62183
- Larsson, Rolf The asymptotic distribution of a test for the mean number of offspring in the branching process with immigration. (English summary) 95m:62184
- Lin'kov, Yu. N. Asymptotic discrimination of counting processes. (Russian. English and Ukrainian summaries) 95f:62123
- Pruscha, Helmut Asymptotic parametric tests of nonlinear hypotheses. (English summary) 95m:62185

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- Ibarrola Muñoz, María del Pilar (with Vélez Ibarrola, Ricardo) Sequential tests for linear hypotheses about the mean of a multidimensional Gaussian process. (English summary) 95m:62168
- Koell, Christophe An optimal procedure for testing hypotheses on càdlàg processes. (English summary) 95h:62143
- Okabe, Yasunori Langevin equations and causal analysis [MR 93c:60071]. (see 95g:00034)
- Rukhin, Andrew L. Adaptive testing of multiple hypotheses for stochastic processes. (English summary) 95i:62012
- Vélez Ibarrola, Ricardo *see* Ibarrola Muñoz, María del Pilar, 95m:62168

62M09 Non-Markovian processes: estimation

- Anilkumar, P. On estimating the mean function of a Gaussian process. (English summary) 95f:62124
- Arfi, Mounir Variance estimation under ergodic hypothesis. (English and French summaries) 95b:62102
- Benassi, Albert (with Cohen, Serge; Jaffard, Stéphane) Identification de processus gaussiens elliptiques. (English and French summaries) [Identification of elliptic Gaussian processes] 95h:62154
- Bertrand, Pierre Une estimation asymptotique des paramètres d'un processus de diffusion ergodique. (English and French summaries) [An asymptotic estimate for the parameters of an ergodic diffusion process] 95b:62103
- Cohen, Serge *see* Benassi, Albert; et al., 95h:62154
- Dzhaparidze, K. O. (with Spreij, Peter) On optimality of regular projective estimators in semimartingale models. (English summary) 95h:62155
- Fang, Xiang Zhong The law of the iterated logarithm for maximum likelihood estimates of parameters of Weibull processes. (Chinese. English and Chinese summaries) 95k:62234
- Feuerverger, Andrew (with Hall, Peter Gavin; Wood, Andrew T. A.) Estimation of fractal index and fractal dimension of a Gaussian process by counting the number of level crossings. (English summary) 95m:62186
- Frydman, Halina Asymptotic inference for the parameters of a discrete-time square-root process. (English summary) 95d:62136
- Hall, Peter Gavin *see* Feuerverger, Andrew; et al., 95m:62186
- Istas, Jacques (with Laredo, Catherine) Estimation d'intégrales de processus aléatoires à partir d'observations discrétisées. (English and French summaries) [Estimating integrals of stochastic processes from discrete samples] 95d:62137
- Jaffard, Stéphane *see* Benassi, Albert; et al., 95h:62154
- Jensen, Jens Ledet Asymptotic normality of estimates in spatial point processes. (English summary) 95a:62065
- (with Küsch, Hans R.) On asymptotic normality of pseudo likelihood estimates for pairwise interaction processes. (English summary) 95m:62187
- Kasitskaya, E. I. *see* Knopov, P. S., 95c:62096
- Knopov, P. S. (with Kasitskaya, E. I.) Some problems in the identification of the parameters of a nonlinear regression in the discrete case. (Russian. Russian summary) 95c:62096
- Küchler, Uwe (with Sørensen, Michael) Exponential families of stochastic processes and Lévy processes. (English summary) 95g:62162
- Kundu, Debasis Consistency of the undamped exponential signal model on a restricted parameter space. (English summary) 95k:62235
- Künsch, Hans R. *see* Jensen, Jens Ledet, 95m:62187
- Kutoyants, Yu. A. (with Nercessian, A.; Pilibossian, Philippe) On limit distribution of the minimum sup norm estimate of the parameter of the Ornstein-Uhlenbeck process. (French summary) 95k:62236
- Laredo, Catherine *see* Istas, Jacques, 95d:62137
- Leśkow, Jacek Sieve-based maximum likelihood estimator for almost periodic stochastic process models. (English summary) 95f:62125
- Luschgy, Harald Asymptotic inference for semimartingale models with singular parameter points. (English summary) 95f:62126
- Nercessian, A. *see* Kutoyants, Yu. A.; et al., 95k:62236
- Pilibossian, Philippe *see* Kutoyants, Yu. A.; et al., 95k:62236
- Pruscha, Helmut Statistical inference for detrended point processes. (English summary) 95d:62138
- Rösler, Margit On optimal linear mean estimators for weakly stationary stochastic processes. (English summary) 95a:62066
- Schellke, Thomas H. Parametric regression for longitudinal data with counting process measurement times. (English summary) 95m:62188
- Smith, Richard L. (with Weissman, Ishay) Estimating the extremal index. (English summary) 95a:62067
- Sørensen, Michael *see* Küchler, Uwe, 95g:62162
- Spreij, Peter *see* Dzhaparidze, K. O., 95h:62155
- Weissman, Ishay *see* Smith, Richard L., 95a:62067
- Wood, Andrew T. A. *see* Feuerverger, Andrew; et al., 95m:62186

Items with secondary classifications in 62M09

- Azrak, R. (with Méléard, G.) Exact maximum likelihood estimation for extended ARIMA models. (see 95c:62003)

- Bai, Jushan Least squares estimation of a shift in linear processes. (English summary) 95j:62060
- Bhat, B. R. Inference for queues with Markov-modulated arrivals. (English summary) 95b:60114
- Grégoire, Gérard Least squares cross-validation for counting process intensities. (English summary) 95h:62060
- Istas, Jacques (with Laredo, Catherine) Covariance estimation of a Gaussian stationary process with wavelet methods. (see 95a:00022)
- Laredo, Catherine *see* Istas, Jacques, (95a:00022)
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- Sabre, Rachid Estimation de la densité de la mesure spectrale mixte pour un processus symétrique stable strictement stationnaire. (English and French summaries) [Estimation of the mixed spectral density for a strictly stationary stable symmetric process] **95i:62080**
- von Sachs, Rainer Peak-insensitive non-parametric spectrum estimation. (English summary) **95g:62174**
- Seneta, Eugene *see* Ku, Simon, **95j:62067**

- Subanar Application of spectral analysis to minimax estimation. (English summary) 95j:62069
- Taniguchi, Masanobu see Kakizawa, Yoshihide, 95k:62253
- Terdik, G. (with Máth, J.) Bispectrum based checking of linear predictability for time series. 95h:62181
- Tkachenko, V. N. see Idrisov, F. F., 95h:62178
- Trush, N. N. (with Miskaya, E. I.) Asymptotic properties of averaged estimates for second-order spectra. (Russian. English and Romanian summaries) 95d:62152
- Walden, Andrew T. see Percival, Donald B., 95j:62068
- Walker, A. Morris Periodogram analysis for complex-valued time series. 95h:62182
- Wittwer, G. Consistent estimates for hidden frequencies in stationary processes for irregularly observed data. (English summary) 95g:62175
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- Brillinger, David R. Time series, point processes, and hybrids. (English and French summaries) 95h:62157
- Dégérine, Serge Sample partial autocorrelation function of a multivariate time series. (English summary) 95m:62194
- Dehay, Dominique Spectral analysis of the covariance of the almost periodically correlated processes. (English summary) 95d:60067
- Hannan, Edward James see Kavalieris, L., 95m:62201
- Hassler, Uwe Regression of spectral estimators with fractionally integrated time series. (English summary) 95j:62063a
- The periodogram regression. Corrigendum: "Regression of spectral estimators with fractionally integrated time series". 95j:62063b
- Hurvich, Clifford M. see Terrin, Norma, 95j:62078
- Istas, Jacques (with Laredo, Catherine) Covariance estimation of a Gaussian stationary process with wavelet methods. (see 95a:00022)
- Jagerman, David L. (with Melamed, Benjamin) The spectral structure of TES processes. (English summary) 95h:60035
- Jones, R. H. ★ Longitudinal data with serial correlation: a state-space approach. (English summary) 95m:62150
- Kavalieris, L. (with Hannan, Edward James) Determining the number of terms in a trigonometric regression. (English summary) 95m:62201
- Kedem, Benjamin see Lopes, Silvia, 95c:60034
- Laredo, Catherine see Istas, Jacques, (95a:00022)
- Lii, Keh-Shin (with Tsou, Tai-Houn) Bispectral analysis of randomly sampled data. (English summary) 95k:62242
- Lopes, Silvia (with Kedem, Benjamin) Iteration of mappings and fixed points in mixed spectrum analysis. (English summary) 95c:60034
- MacNeill, I. B. (with Mao, Yang; Xie, Lei) Modeling heteroscedastic age-periodic-cohort cancer data. (English and French summaries)
- Mao, Yang see MacNeill, I. B.; et al.
- Melamed, Benjamin see Jagerman, David L., 95h:60035
- O'Sullivan, Finbarr see Pawitan, Yudi, 95f:62075
- Parzen, Emanuel Stationary time series analysis using information and spectral analysis. (see 95c:62003)
- Pawitan, Yudi (with O'Sullivan, Finbarr) Nonparametric spectral density estimation using penalized Whittle likelihood. (English summary) 95f:62075
- Rudzkis, R. Distribution of supremum-type functionals of nonparametric estimates for a probability density and a spectral density. (Russian) 95c:62050
- Samorodnitsky, Gennady (with Taqqu, Murad S.) ★ Stable non-Gaussian random processes. (English summary) 95f:60024
- Taqqu, Murad S. see Samorodnitsky, Gennady, 95f:60024
- Terrin, Norma (with Hurvich, Clifford M.) An asymptotic Wiener-Itô representation for the low frequency ordinates of the periodogram of a long memory time series. (English summary) 95i:62078
- Tsou, Tai-Houn see Lii, Keh-Shin, 95k:62242
- Wang, Jia Gang A law of the iterated logarithm for stochastic integrals. (English summary) 95d:60062
- Xie, Lei see MacNeill, I. B.; et al.

62M20 Prediction [see also 60G25]; filtering [see also 60G35, 93E10, 93E11]

- Cambanis, Stamatís see Su, Yingcai, 95d:62153
- Chen, Hao Qiu (with Wang, Feng Quan; Wang, Hai Bin) Stationary conditions, spectral density and the best linear predictors for upper subdiagonal bilinear time series models. (Chinese. English and Chinese summaries)
- Chu-Chun-Lin, Singfat see de Jong, Piet, 95a:62074
- Gassiat, Élisabeth Déconvolution aveugle de systèmes linéaires discrets bruités. (English and French summaries) [The blind deconvolution of discrete linear systems with additive noise] 95g:62176
- Girón, F. J. (with Rojano, J. C.) Bayesian Kalman filtering with elliptically contoured errors. (English summary) 95f:62139
- Herkenrath, Ulrich Generalized adaptive exponential smoothing procedures. (English summary) 95k:62257
- de Jong, Piet (with Chu-Chun-Lin, Singfat) Fast likelihood evaluation and prediction for nonstationary state space models. (English summary) 95a:62074
- Laslett, Geoffrey M. Kriging and splines: an empirical comparison of their predictive performance in some applications. (English summary)
- Rojano, J. C. see Girón, F. J., 95f:62139
- Satchell, Steve (with Timmermann, Allan) Optimal properties of exponentially weighted forecasts in the presence of different information sources. (English summary) 95h:62183
- Sotoca Lopez, Sonia Exact maximum likelihood estimation of dynamic models by means of the Chandrasekhar filter. (Spanish. English and Spanish summaries)
- Su, Yingcai (with Cambanis, Stamatís) Sampling designs for estimation of a random process. (English summary) 95d:62153
- Timmermann, Allan see Satchell, Steve, 95h:62183
- Tong, Howell see Yao, Qi Wei, 95f:62140

- Wang, Feng Quan see Chen, Hao Qiu; et al.
- Wang, Hai Bin see Chen, Hao Qiu; et al.
- Yao, Qi Wei (with Tong, Howell) Quantifying the influence of initial values on non-linear prediction. (English summary) 95f:62140

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- Aggoun, Lakhdar (with Elliott, Robert James) Celestial signal estimation. (English summary) 95b:60043
- Elliott, Robert James Exact adaptive filters for Markov chains observed in Gaussian noise. (English summary) 95h:93083
- see also Aggoun, Lakhdar, 95b:60043
- Eltinge, John L. Comparison of time and cross-sectional aggregation under a time series random component model. (English summary) 95c:62089
- Findley, David F. (with Wei, Ching Zong) Moment bounds for deriving time series CLTs and model selection procedures. (English summary) 95f:62128
- Franke, Jürgen A general version of Breiman's minimax filter. 95d:60077
- Gao, Ren Xiang (with Zhang, Shi Ying; Liu, Bao) A class of nonlinear models and their forecasting bias analysis. (Chinese. English and Chinese summaries)
- Hamilton, James D. Estimation, inference and forecasting of time series subject to changes in regime. (see 95a:62081)
- Kim, Woo Chul see Rukhin, Andrew L., 95m:62017
- Ledolter, Johannes see Tsimikas, John, 95c:62082
- Liu, Bao see Gao, Ren Xiang; et al.
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- Mitchell, Toby (with Sacks, Jerome; Ylvisaker, Donald) Asymptotic Bayes criteria for nonparametric response surface design. (English summary) 95k:62209
- Mittnik, S. see Zadrozny, P. A., 95h:93169
- Politis, Dimitris N. Markov chains in many dimensions. (English summary) 95g:60115
- Rajput, Balram S. (with Sundberg, Carl) On some extremal problems in H^p and the prediction of L^p -harmonizable stochastic processes. (English summary) 95g:30048
- Rao, M. M. Harmonizable processes and inference: unbiased prediction for stochastic flows. (English summary) 95d:60099
- Rukhin, Andrew L. (with Kim, Woo Chul) Asymptotically admissible and minimax estimators of the unknown mean. (English summary) 95m:62017
- Rutkowski, Marek Optimal linear filtering and smoothing for a discrete-time stable linear model. (English summary) 95j:60063
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- Shephard, Neil Partial non-Gaussian state space. (English summary) 95a:62073
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- Tsimikas, John (with Ledolter, Johannes) REML and best linear unbiased prediction in state space models. (English summary) 95c:62082
- Wei, Ching Zong see Findley, David F., 95f:62128
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- Zadrozny, P. A. (with Mittnik, S.) Kalman-filtering methods for computing information matrices for time-invariant, periodic, and generally time-varying VARMA models and samples. (English summary) 95h:93169
- Zhang, Ping (with Shaman, Paul) Assessing prediction error in autoregressive models. (English summary) 95i:62079
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62M30 Spatial processes

- Beneš, Viktor see Chadeuf, Joël, 95h:62184
- Brownie, Cavell see Etchison, Tonya; et al., 95i:62081
- Chadeuf, Joël (with Beneš, Viktor) On some estimation variances in spatial statistics. (English summary) 95h:62184
- Cressie, Noel see Rathbun, Stephen L., 95d:62154
- Etchison, Tonya (with Pantula, Sastry G.; Brownie, Cavell) Partial autocorrelation function for spatial processes. (English summary) 95i:62081
- Geyer, Charles J. (with Møller, Jesper) Simulation procedures and likelihood inference for spatial point processes. (English summary) 95i:62082
- Handcock, Mark S. (with Wallis, James R.) An approach to statistical spatial-temporal modeling of meteorological fields. (English summary) 95e:62105
- van Lieshout, M. N. M. Stochastic annealing for nearest-neighbour point processes with application to object recognition. (English summary) 95c:62093
- Molchanov, I. S. (with Stoyan, Dietrich) Asymptotic properties of estimators for parameters of the Boolean model. (English summary) 95g:62177
- (with Stoyan, Dietrich) Directional analysis of fibre processes related to Boolean models. (English summary) 95k:62258
- Møller, Jesper see Geyer, Charles J., 95i:62082
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- Rathbun, Stephen L. (with Cressie, Noel) Asymptotic properties of estimators for the parameters of spatial inhomogeneous Poisson point processes. (English summary) 95d:62154
- Stoyan, Dietrich see Molchanov, I. S., 95g:62177 and 95k:62258
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- (Bamber, N. P.) see Stoyan, Dietrich, 95h:60016
- Beneš, Viktor (with Chadeuf, Joël; Ohser, Joachim) On some characteristics of anisotropic fibre processes. (English summary) 95g:60016
- Chadeuf, Joël see Beneš, Viktor; et al., 95g:60016
- Corsten, L. C. A. (with Stein, A.) Nested sampling for estimating spatial semivariograms compared to other designs. (English summary) 95e:62098
- Hjort, Nils Lid (with Omre, Henning) Topics in spatial statistics. (English summary) 95k:62152
- (Johnson, R. B.) see Stoyan, Dietrich, 95h:60016

- Koll, Tarmo An example of uniform strong laws of random lines. (English and Estonian summaries) 95g:60020
- Korostelev, A. P. (with Tsybakov, A. B.) ★ Minimax theory of image reconstruction. 95a:62028
- Laslett, Geoffrey M. Kriging and splines: an empirical comparison of their predictive performance in some applications. (English summary)
- Naik-Nimbalkar, Uttara V. (with Rajarshi, M. B.) Towards semi-parametric image-processing. (English summary) 95k:62259
- Ohser, Joachim see Beneš, Viktor; et al., 95g:60016
- Omre, Henning see Hjort, Nils Lid, 95k:62152
- Perera, Gonzalo Spatial statistics, central limit theorems for mixing random fields and the geometry of Z^d . (English and French summaries) 95k:60063
- Rajarshi, M. B. see Naik-Nimbalkar, Uttara V., 95k:62259
- Rudemo, Mats (with Stryhn, Henrik) Approximating the distribution of maximum likelihood contour estimators in two-region images. (English summary) 95c:62052
- Stein, A. see Corsten, L. C. A., 95c:62098
- Stoyan, Dietrich (with Stoyan, Helga) ★ Fractals, random shapes and point fields. (English summary) 95h:60016
- Stoyan, Helga see Stoyan, Dietrich, 95h:60016
- Stryhn, Henrik see Rudemo, Mats, 95c:62052
- Tsybakov, A. B. see Korostelev, A. P., 95a:62028
- Weil, Wolfgang The estimation of mean shape and mean particle number in overlapping particle systems in the plane. (English summary) 95k:60034

62M40 Random fields

- Frigessi, Arnoldo (with Stander, Julian) Informative priors for the Bayesian classification of satellite images. (English summary)
- Kaplan, E. I. Convergence of estimates for partitions in the change point problem for random fields. (Ukrainian, Russian and Ukrainian summaries) 95b:62115
- Naik-Nimbalkar, Uttara V. (with Rajarshi, M. B.) Towards semi-parametric image-processing. (English summary) 95k:62259
- Rajarshi, M. B. see Naik-Nimbalkar, Uttara V., 95k:62259
- Roussas, George G. Curve estimation in random fields of associated processes. (English summary) 95c:62094
- Stander, Julian see Frigessi, Arnoldo
- Stein, Michael L. Asymptotic properties of centered systematic sampling for predicting integrals of spatial processes. (English summary) 95d:62155
- Zhang, Biao Some asymptotic results for the residual maximum likelihood estimation of the parameters of a spatial process. (English summary) 95g:62178

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- Arató, N. M. The estimate of potential in stochastic Schrödinger's equation. (English summary) 95m:60077
- Baldi, Paolo (with Frigessi, Arnoldo; Piccioni, Mauro) Importance sampling for Gibbs random fields. (English summary) 95a:60066
- Carstensen, Jens Michael Morphological Markov random fields. (English summary)
- Corsten, L. C. A. (with Stein, A.) Nested sampling for estimating spatial semivariograms compared to other designs. (English summary) 95c:62098
- Frigessi, Arnoldo see Baldi, Paolo; et al., 95a:60066
- Hall, Peter Gavin (with Patil, Prakash) Properties of nonparametric estimators of autocovariance for stationary random fields. (English summary) 95k:62108
- Künsch, Hans R. Robust priors for smoothing and image restoration. (English summary)
- Luesink, Rob On the likelihood ratio for two-parameter discrete space stochastic processes. (English summary) 95a:60069
- Olsson, Jonny (with Rootzén, Holger) An image model for quantal response analysis in perimetry. (English summary)
- Patil, Prakash see Hall, Peter Gavin, 95k:62108
- Piccioni, Mauro see Baldi, Paolo; et al., 95a:60066
- Rootzén, Holger see Olsson, Jonny
- Sherman, Michael Asymptotic normality for a general statistic from a random field. (English summary) 95m:60045
- Stein, A. see Corsten, L. C. A., 95c:62098
- Takahata, Hiroshi Nonparametric density estimations for a class of marked point processes. (English summary) 95g:62081
- Winkler, Gerhard ★ Image analysis, random fields and dynamic Monte Carlo methods. (English summary) 95k:68236

62M99 None of the above, but in this section

- Basu, A. K. (with Bhattacharya, Debasis) On the speed of convergence of log-likelihood ratio processes to standard mixture of normal distributions. (English summary) 95m:62218
- Bhattacharya, Debasis see Basu, A. K., 95m:62218
- Boswijk, H. Peter (with Neudecker, Heinz; Liu, Shuang Zhe) A note on the asymptotics of a stochastic vector difference equation. (English summary) 95a:62075
- Chan, K. S. (with Tong, Howell) A note on noisy chaos. (English summary) 95b:62116
- Chib, Siddhartha (with Tiwari, Ram C.) Outlier detection in the state space model. (English summary)
- Constantine, A. G. (with Hall, Peter Gavin) Characterizing surface smoothness via estimation of effective fractal dimension. (English summary) 95k:62260
- Gamboia, Fabrice (with Gassiat, Elisabeth) Séparation de sources à support discret. (English and French summaries) [Discrete source separation] 95h:62185
- Gassiat, Elisabeth see Gamboia, Fabrice, 95h:62185
- Grigelionis, Bronius On Lundberg inequalities in a Markovian environment. (English summary) 95b:62117
- Hall, Peter Gavin see Constantine, A. G., 95k:62260
- Lele, Subhash Estimating functions in chaotic systems. (English summary)
- Liu, Shuang Zhe see Boswijk, H. Peter; et al., 95a:62075
- Neudecker, Heinz see Boswijk, H. Peter; et al., 95a:62075

- Tiwari, Ram C. see Chib, Siddhartha
- Tong, Howell see Chan, K. S., 95b:62116

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- Bosq, Denis Sur le comportement exotique de l'estimateur à noyau de la densité marginale d'un processus à temps continu. (English and French summaries) [Exotic asymptotic behavior of the kernel density estimate for continuous time processes] 95k:62094
- Brugière, Pierre Théorème de limite centrale pour un estimateur non paramétrique de la variance d'un processus de diffusion multidimensionnelle. (English and French summaries) [Central limit theorem for a nonparametric estimator of the variance of a multidimensional diffusion process] 95i:62049
- Dargahi-Noubary, G. R. Stochastic modeling and identification of seismic records based on established deterministic formulations. (English summary) 95m:86007
- Donoho, David L. Nonlinear wavelet methods for recovery of signals, densities, and spectra from indirect and noisy data. (English summary) 95k:62099
- Espinosa Balderas, Victor Manuel Sums of dependent random variables. Empirical evidence through simulation. (Spanish) (see 95f:00014)
- Florens, Jean-Pierre (with Mouchart, Michel; Rolin, J.-M.) Noncausality and marginalization of Markov processes. (English summary) 95d:62171
- Isham, Valerie Statistical aspects of chaos: a review. 95j:58114
- Janicki, Aleksander (with Weron, Aleksander) Can one see α -stable variables and processes? (English summary) 95b:60017
- Jones, Lee K. (with Larson, Richard C.) Efficient computation of probabilities of events described by order statistics and applications to queue inference. (English summary)
- Larson, Richard C. see Jones, Lee K.
- Liu, Jun S. The collapsed Gibbs sampler in Bayesian computations with applications to a gene regulation problem. (English summary) 95c:62030
- Magiera, R. Conjugate priors for exponential-type processes with random initial conditions. (English summary) 95m:62057
- Mouchart, Michel see Florens, Jean-Pierre; et al., 95d:62171
- Petrović, Ljiljana Causality in families of Hilbert spaces. (English summary) 95k:60092
- Rao, Calyampudi Radhakrishna Some statistical problems in multitarget tracking. (English summary) 95b:93166
- Rolin, J.-M. see Florens, Jean-Pierre; et al., 95d:62171
- Tan, W. Y. On the HIV incubation distribution under non-Markovian models. (English summary)
- Weron, Aleksander see Janicki, Aleksander, 95b:60017

62Nxx Engineering statistics

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62N05 Reliability and life testing [see also 90B25]

- Aase, Knut K. Premiums in a dynamic model of a reinsurance market. (English summary) 95d:62156
- Achcar, Jorge Alberto Approximate Bayesian inference for accelerated life tests. (English summary)
- Ahmad, Nesar (with Islam, A.; Kumar, Rajeev; Tuteja, R. K.) Optimal design of accelerated life test plans under periodic inspection and type I censoring: the case of Rayleigh failure law. (English summary)
- Ahn, Hae-II (with Kuo, Way) Applications of consecutive system reliability in selecting acceptance sampling strategies. (English summary) 95d:62157
- Ansell, J. I. (with Phillips, M. J.) ★ Practical methods for reliability data analysis. (English summary) 95m:62219
- Arjas, Elja (with Gasbarra, Dario) Nonparametric Bayesian inference from right censored survival data, using the Gibbs sampler. (English summary) 95b:62186
- Arthanari, T. S. see Chakraborty, Ashis Kr.
- Azaiez, M. Naceur (with Bier, Vicki M.) Perfect aggregation in Bayesian estimation for several realistic reliability models. (English summary)
- Bagdonavicius, Vilijandas (with Nikulin, M. S.) Stochastic models of accelerated life. (English summary) 95k:62261
- Barlow, Richard E. (with Mendel, Max B.) Similarity as a probabilistic characteristic of aging. 95i:62083
- Basu, Sujit K. see Mitra, Murari, 95k:62266
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- Bhattacharjee, M. C. How rich are the rich? Modeling affluence and inequality via reliability theory. (English summary) 95m:62220
- Bier, Vicki M. see Azaiez, M. Naceur
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- Boland, Philip J.** (with El-Newehi, Emad; Proschan, Frank) Applications of the hazard rate ordering in reliability and order statistics. (English summary) **95f:62141**
- Cai, Haiyan** see **Luo, Xiaolong**; et al. **95m:62226**
- Cai, Jun** On a characterization of the SNBU multivariate life distributions and their closure property. (Chinese. English and Chinese summaries)
- Campodonico, Sylvia** (with Singpurwalla, Nozer D.) The signature as a covariate in reliability and biometry. **95m:62221**
- Cao, Jin Hua** (with Wang, Yue Dong) The NBELC and NWELC classes of life distributions. (English summary) **95k:62262**
- Chakraborty, Ashis K.** (with Arthanari, T. S.) Optimum testing time for software under an exploration model. (English summary)
- Chen, Di** (with Xu, Jin Long) Confidence lower bounds of reliability based on zero-failure data from a Weibull distribution. (Chinese. English and Chinese summaries)
- Clark, Larry C.** see **Luo, Xiaolong**; et al. **95m:62226**
- Deshpande, Jayant V.** (with Paranjpe, Sharayu) Comparison of tests for constant vs. bathtub shaped hazard rate. (English summary) **95b:62118**
- (with Dharmadhikari, Avinash D.; Naik-Nimbalkar, Uttara V.) Two sample tests based on cumulative incidence functions from coherent systems. (English summary) **95c:62095**
- Dharmadhikari, Avinash D.** see **Deshpande, Jayant V.**; et al. **95c:62095**
- Ebrahimi, Nader** A semiparametric technique to estimate survival probabilities. (English summary) **95g:62179**
- El-Newehi, Emad** see **Boland, Philip J.**; et al. **95f:62141**
- Fan, Da Yin** A sequencing method for calculating classical exact optimal upper confidence limits for the failure rate of exponential lifetime components. (Chinese. English summary)
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- Fei, He Liang** Statistical analysis of progressive-stress accelerated life testing in the Weibull distribution situation. (Chinese. English and Chinese summaries)
- see also **Tang, Yin Cai**. **95k:62270**
- Fu, James C.** Poisson convergence in reliability of a large linearly connected system as related to coin tossing. (English summary) **95a:62076**
- Gardiner, J. C.** see **Wang, Zhi Ming**; et al. **95m:62231**
- Gasbarra, Dario** see **Arjas, Elja**. **95b:62186**
- Gertsbakh, I.** (with Kordonskii, Kh. B.) Conservative Bayesian interval estimation of system reliability. (see **95d:62003**)
- Guess, Frank M.** see **Reiser, B.**; et al.
- Guttman, Irwin** see **Reiser, B.**; et al.
- (Harrison, Robert A.) see **Handbook: Reliability engineering**. **95d:62162**
- He, Shu Yuan** (with Yang, Grace L.) Estimating lifetime distribution under different sampling plans. (English summary) **95k:62263**
- Heyland, Arnijot** (with Rausand, Marvin) ★ System reliability theory. (English summary) **95m:62222**
- Huang, Teng Yuan** see **Tseng, Sheng Ts'ang**; et al. **95b:62120**
- Huang, Wen Tao** (with Lin, Huei Tsan) The accelerated life test for lognormal distribution based on type I and type II censored data. (English summary)
- Huet, S.** (with Kaddour, A.) Maximum likelihood estimation in survival analysis with grouped data on censored individuals and continuous data on failures. (English summary)
- Isaac-Mani, Al.** see **Vodá, Václav**
- Islam, A.** see **Ahmad, Nesar**; et al.
- Islam, M. Ataharul** Multistate survival models for transitions and reverse transitions: an application to contraceptive use data. (English summary) **95k:62264**
- Jana, Prasanta Kumar** Estimation for $P[Y < X]$ in the bivariate exponential case due to Marshall and Olkin. (English summary) **95j:62188**
- Janssen, Arnold** On local odds and hazard rate models in survival analysis. (English summary) **95k:62265**
- Kaddour, A.** see **Huet, S.**
- Kamps, Udo** Reliability properties of record values from non-identically distributed random variables. (English summary) **95b:62119**
- (Kanjó, Anis I.) see **Klefsjö, Bengt**
- Kimber, A. C.** see **Whitmore, G. A.**; et al.
- Klefsjö, Bengt** Letter to the editor: "An exact test for NBUE class of survival functions" [Comm. Statist. Theory Methods 22 (1993), no. 3, 787–795] by A. I. Kanjio.
- Kolowrocki, Krzysztof** On limiting forms of the reliability functions sequence of the parallel-series system. (English summary)
- Kordonskii, Kh. B.** see **Gertsbakh, I.** (see **95d:62003**)
- Kotlyar, V. Yu.** On some estimates in classes of "ageing" distributions. (Russian)
- Kumar, Rajeev** see **Ahmad, Nesar**; et al.
- Kunchur, S. H.** (with Munoli, Surekha B.) Estimation of reliability in Freund model for two component system. (English summary)
- Kuo, Way** see **Aha, Hae-II**. **95d:62157**
- Kyriakoussis, A.** (with Papadopoulos, Alex S.) The zero-truncated Poisson failure model from the Bayesian approach. (English summary) **95c:62106**
- Lam, Yeh** Bayesian variable sampling plans for the exponential distribution with type I censoring. (English summary) **95m:62223**
- Lánský, Petr** see **Smith, Charles E.** **95d:62161**
- Lawless, J. F.** (with Nadeau, C.) Some simple robust methods for the analysis of recurrent events. (English summary)
- Lee, Sunho** see **Song, Haefiang**
- Leemis, Lawrence M.** ★ Reliability. **95m:62224**
- Lin, Dennis K. J.** see **Reiser, B.**; et al.
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— Author's clarification: "DNA fingerprinting: a review of the controversy" [Statist. Sci. 9 (1994), no. 2, 222–278].

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- Le, Nhu D. see Brown, Philip J.; et al.
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- Crandall, Richard E. ★ Projects in scientific computation. (English summary) 95d:65001
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- (Becker, Albert) see Engeln-Müllges, Gisela, 95g:65006b

- Bondar, James V. Comments on and complements to: *Inequalities: theory of majorization and its applications* [Academic Press, New York, 1979; MR 81b:00002] by A. W. Marshall and I. Olkin. (English summary) 95c:00001
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- (Eggermann, Uli) see Engeln-Müllges, Gisela, 95g:65006b
- Engeln-Müllges, Gisela (with Reutter, Fritz) ★ Numerik-Algorithmen mit FORTRAN 77-Programmen. (German. German summary) [Numerical algorithms with FORTRAN 77-programs] 95g:65006a
- (with Reutter, Fritz) ★ Numerik-Algorithmen mit ANSI C-Programmen. (German. German summary) [Numerical algorithms with ANSI C-programs] 95g:65006b
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- Kölbig, K. S. Table errata: *Table of integrals, series, and products* by I. S. Gradshteyn and I. M. Ryzhik [Academic Press, Boston, 1994; MR 94g:00008].
- (Marshall, Albert W.) see Bondar, James V., 95c:00001
- (Olkin, Ingram) see Bondar, James V., 95c:00001
- Reutter, Fritz see Engeln-Müllges, Gisela, 95g:65006a and 95g:65006b
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65-01 Instructional exposition (textbooks, tutorial papers, etc.)

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- Köckler, Norbert ★ Numerical methods and scientific computing. (English summary) 95i:65004
- Kononov, A. N. ★ Введение в вычислительные методы линейной алгебры. (Russian. Russian summary) [An introduction to numerical methods in linear algebra] 95a:65002
- Lascaux, Patrick (with Théodor, R.) ★ Analyse numérique matricielle appliquée à l'art de l'ingénieur. Tome 2. (French. French summary) [Matrix computation and the art of engineering. Vol. 2] 95i:65002
- Levitskii, A. A. see Agafonov, S. A.; et al., 95i:65001
- Li, Zhi Jie see Tang, Zhen; et al., 95i:65007
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- Steinberg, Stanly see Knupp, Patrick, 95b:65001
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- ★ Numerische Mathematik. I. (German) [Numerical mathematics. I.] 95k:65001
- Szidarovszky, Ferenc see Argyros, Ioannis K., 95b:65001
- Tang, Zhen (with Jin, Jian Ming; Li, Zhi Jie) ★ Jisuan fangfa. (Chinese. Chinese summary) [Computational methods] 95i:65007
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- Wiberg, Nils-Erik On understanding and teaching of the finite element method. (English summary)
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- Aumann, Günter (with Spitzmüller, Klaus) ★ Computerorientierte Geometrie. (German. German summary) [Computer-oriented geometry] 95c:68217
- Crandall, Richard E. ★ Projects in scientific computation. (English summary) 95d:65001
- Ellacott, S. W. The numerical analysis approach. (English summary) (see 95g:68098)
- Fiume, Eugene ★ An introduction to scientific, symbolic, and graphical computation. (English summary) 95m:68001
- Kosmol, Peter ★ Methoden zur numerischen Behandlung nichtlinearer Gleichungen und Optimierungsaufgaben. (German. German summary) [Methods for the numerical treatment of nonlinear equations and optimization problems] 95i:90001
- Schiesser, William E. ★ Computational mathematics in engineering and applied science: ODEs, DAEs, and PDEs. (English summary) 95g:65007
- Sobolev, Sergei L'vovich ★ Cubature formulas and modern analysis. (English summary) 95c:65046
- Spitzmüller, Klaus see Aumann, Günter, 95c:68217
- Trenogin, V. A. ★ Функциональный анализ. (Russian. Russian summary) [Functional analysis] 95c:46003
- Xu, Yi Chao ★ Xianxing daishu yu juzhen lun. (Chinese. Chinese summary) [Linear algebra and matrix theory]

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- Axelsson, Owe ★ Iterative solution methods. (English summary) 95f:65005
- Bakhvalov, N. S. On the optimization of numerical algorithms. 95c:65003
- Bini, Dario (with Pan, Victor Y.) ★ Polynomial and matrix computations. Vol. 1. (English summary) 95k:65003
- Blazek, Jiri ★ Investigations of the implicit LU-SSOR scheme. (English and German summaries) 95c:65004
- Bramble, James H. ★ Multigrid methods. (English summary) 95b:65002
- Calvo, M. P. see Sanz-Serna, J. M., 95f:65006
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- Griebel, Michael ★ Multilevelmethoden als Iterationsverfahren über Erzeugendensystemen. (German. German summary) [Multilevel methods as iteration methods over generator systems] 95k:65004
- Isaacson, Eugene (with Keller, Herbert Bishop) ★ Analysis of numerical methods. (English summary)
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- Li, De Mao Recent developments in the study of numerical methods for singular problems. (Chinese. English and Chinese summaries)
- Lin, Qun Interpolated finite elements and global error recovery. (English summary) 95c:65002
- Mickens, Ronald E. ★ Nonstandard finite difference models of differential equations. (English summary) 95g:65004
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- (Szabados, József) see Varga, Richard S., 95d:65003a and 95d:65003b
- Vajteršic, Marián ★ Algorithms for elliptic problems. (English summary) 95a:65003
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- Adomian, George A. ★ Solving frontier problems of physics: the decomposition method. (English summary) 95c:00026
- Butcher, J. C. Initial value problems: numerical methods and mathematics. (English summary) 95f:65140
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- (Ciarlet, Philippe G.) see Handbook: Numerical analysis, 95g:65001
- Curnier, Alain ★ Méthodes numériques en mécanique des solides. (French. French summary) [Numerical methods in the mechanics of solids] 95i:73001a
- ★ Computational methods in solid mechanics. (English summary) 95i:73001b
- Fack, V. Numerical methods for solving one-dimensional and radial Schrödinger equations. (English and Dutch summaries) 95c:81020
- Feistauer, Miloslav ★ Mathematical methods in fluid dynamics. 95d:76003
- Fornberg, Bengt (with Sloan, David M.) A review of pseudospectral methods for solving partial differential equations. 95j:65122
- Hassenpflug, W. C. Convolution number. (English summary) 95c:65008
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- Babuska, Ivo Courant element: before and after. (see 95d:65008)
- Cooley, James W. Lanczos and the FFT: a discovery before its time. (see 95c:00039)
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- Ortiz, Eduardo L. The tau method and the numerical solution of differential equations: past and recent research. (see 95c:00039)
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- O'Leary, Dianne P. Some themes in Gene H. Golub's work on iterative methods. (English summary) (see 95m:65001)
- Ohashi, Tsunemichi Professor T. Shimizu's works on numerical methods in ordinary differential equations. (English summary)
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65-04 Explicit machine computation and programs (not the theory of computation or programming)

- Aitchison, Peter see Zeglinski, Gordon W.; et al.
- Ascher, Uri M. (with Spiteri, Raymond J.) Collocation software for boundary value differential-algebraic equations. (English summary) 95a:65004
- (Becker, Albert) see Engeln-Müllges, Gisela, 95g:65006b
- Bendtsen, Claus (with Hansen, Per Christian; Madsen, Kaj; Nielsen, Hans Bruun; Pinar, Mustafa Ç.) Implementation of QR up- and downdating on a massively parallel computer. (English summary)
- Brankin, R. W. (with Gladwell, I.; Shampine, L. F.) RKSUITE: a suite of explicit Runge-Kutta codes. (English summary) (see 95d:65007)
- (Dietel, Jürgen) see Engeln-Müllges, Gisela, 95g:65006a and 95g:65006b
- Dongarra, Jack Performance of LAPACK. (see 95d:65004)
- (Eggermann, Uli) see Engeln-Müllges, Gisela, 95g:65006b
- Elman, Howard C. (with Lee, Dennis K.-Y.) Use of linear algebra kernels to build an efficient finite element solver. (English summary)
- Engeln-Müllges, Gisela (with Reutter, Fritz) ★ Numerik-Algorithmen mit FORTRAN 77-Programmen. (German. German summary) [Numerical algorithms with FORTRAN 77-programs] 95g:65006a
- (with Reutter, Fritz) ★ Numerik-Algorithmen mit ANSI C-Programmen. (German. German summary) [Numerical algorithms with ANSI C-programs] 95g:65006b
- Espelid, Terje O. (with Overholt, K. J.) DQAINF: an algorithm for automatic integration of infinite oscillating tails. (English summary)
- (with Genz, Alan) DECUHR: an algorithm for automatic integration of singular functions over a hyperrectangular region. (English summary)
- Floros, N. (with Reeve, Jeffrey Stephen) Evaluation of a spectral element CFD code on parallel architectures. (English summary)
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- Geurts, A. J. (with Praagman, C.) ★ A Fortran subroutine for column reduction of polynomial matrices. (English summary) 95d:65005
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- Hootman, J. see Wu, Guang; et al.
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- Lee, Dennis K.-Y. see Elman, Howard C.
- Leyk, Zbigniew see Stewart, David E., 95f:65007
- Luk'yanova, R. G. The applied program package NEWST1 for solving nonlinear boundary value problems for systems of first-order ordinary differential equations that depend on a parameter. (Russian. Russian summary)
- Madsen, Kaj see Bendtsen, Claus; et al.
- Mitsou, G. V. see Simos, T. E.
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 Wu, Guang (with Wang, Jun; Hootman, J.) A recurrent neural network for computing pseudoinverse matrices. (English summary)
 Zeglinski, Gordon W. (with Han, Ray P. S.; Aitchison, Peter) Object oriented matrix classes for use in a finite element code using C++. (English summary)
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- Expert Systems for Scientific Computing ★ Third International Conference on Expert Systems for Scientific Computing. 95c:65003
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65A05 Tables

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- Gutknecht, Martin H. (with Hochbruck, Marlis). Look-ahead Levinson- and Schur-type recurrences in the Padé table. (English summary) 95i:65011

- Hochbruck, Marlis. *see* Gutknecht, Martin H., 95i:65011
- Kalla, Shyam L. (with Galué, Leda). Simple algorithms for the approximation of the hypergeometric functions. (English summary) 95j:65002
- Kölbig, K. S. On three trigonometric integrals of $\ln \Gamma(x)$ or its derivative. (English summary) 95i:65012

65Bxx Acceleration of convergence

65B05 Extrapolation to the limit, deferred corrections

- Brezinski, C. (with Redivo Zaglia, M.) On the kernel of sequence transformations. (English summary) 95m:65003
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65B10 Summation of series

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- Lewanowicz, Stanisław. A simple approach to the summation of certain slowly convergent series. (English summary) 95a:65010
- Ni, Wen Juan. Necessary and sufficient conditions for convergence in mean of order p of a sequence of functions. (Chinese. English and Chinese summaries)
- Tang, Shuo (with Zhong, Hong). On the best convergence acceleration process for limit periodic continued fractions by the T_{+m} transformation. (Chinese. English and Chinese summaries)
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Items with secondary classifications in 65B10

- Gautschi, Walter. Summation of slowly convergent series. 95f:40001
- Lewanowicz, Stanisław (with Paszkowski, Stefan). An analytic method for convergence acceleration of certain hypergeometric series. (English summary) 95b:33006
- Melnik, Yu. I. On the rate of convergence of double series of exponentials that represent regular functions in the products of convex polygons. (Russian. English and Ukrainian summaries) 95k:41044
- Paszkowski, Stefan. *see* Lewanowicz, Stanisław, 95b:33006
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- Rassias, Themistocles M. (with Singh, Shobh Nath; Srivastava, Hari M.) Some q -generating functions associated with basic multiple hypergeometric series. (English summary) 95m:33018
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- Tsvil', M. M. V. K. Dzadyk's formula for the summation of double Faber series. (Russian. English and Ukrainian summaries) 95k:41045
- Walls, Gary L. Partial sums of the harmonic series. 95m:40006

65B15 Euler-Maclaurin formula

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- MacDonald, Duncan Anthony. Euler-Maclaurin summation of trigonometric Fourier series. (English summary) 95j:40003
- Wu, Fu Chao. Estimation of partial sums of harmonic series. (Chinese. Chinese summary) 95a:40002

65B99 None of the above, but in this section

- Ashby, Steven F. (with Brown, Peter N.; Dorr, M. R.; Hindmarsh, Alan C.) A linear algebraic analysis of diffusion synthetic acceleration for the Boltzmann transport equation. (English summary) 95m:65005
- Brown, Peter N. A linear algebraic development of diffusion synthetic acceleration for three-dimensional transport equations. (English summary) 95m:65006

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Iguchi, Ken An acceleration process for iterated vectors generated by a real symmetric matrix. (English summary) 95m:65007

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65Dxx Numerical approximation {Primarily algorithms; for theory, see 41–XX.}

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- Freund, Roland W. (with Zha, Hong Yuan) Formally biorthogonal polynomials and a look-ahead Levinson algorithm for general Toeplitz systems. (English summary) **95b:65040**
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- Karnachuk, V. I. (with Larin, M. R.) ★ Реализация прямых методов для решения систем линейных алгебраических уравнений с разреженной матрицей. (Russian) [Realization of direct methods for solving systems of linear algebraic equations with a sparse matrix]
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- Ramage, Alison** (with Wathen, Andrew J.) On preconditioning for finite element equations on irregular grids. (English summary) **95d:65095**
- Sarkis, Marcus** Multilevel methods for P_1 nonconforming finite elements and discontinuous coefficients in three dimensions. (English summary) (see **95i:65008**)
- Shalashilin, V. I.** (with Kuznetsov, E. B.) Best parameter of the continuation of the solution. (Russian) **95f:65110**
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- Shenoi, K.** *see* **Diaz, J. C.**, **95i:65175**
- Shi, Xi Quan** *see* **Dahmen, Wolfgang**; et al., **95e:65098**
- Tyrtshnikov, E. E.** Circulant preconditioners with unbounded inverses. (English summary) **95m:15019**
- Vanderbei, Robert J.** Symmetric quasidefinite matrices. (English summary) **95m:65078**
- Vassilevski, Panayot S.** *see* **Proskurowski, Włodzimierz**, **95b:65138**; **Axelsson, Owe**, **95f:65200**; **Margenov, Svetozar D.**, **95g:65155** and **Proskurowski, Włodzimierz**, **95m:65194**
- van der Vorst, Henk A.** Minimum residual modifications to Bi-CG and to the preconditioner. (see **95m:65001**)
- Wabo, E.** *see* **Maitre, Jean-François**, **95i:65159**
- Wathen, Andrew J.** *see* **Ramage, Alison**, **95d:65095**
- Wicks, M. A.** (with DeCarlo, Raymond) Rank robustness of complex matrices with respect to real perturbations. (English summary) **95g:93061**
- Wong, Sze-Ping** Preconditioning P_1 nonconforming finite elements: condition numbers and singular value distributions. (English summary) **95c:65192**
- Xu, Jinchao** (with Qin, Jinshui) Some remarks on a multigrid preconditioner. (English summary) **95a:65210**
- Zampieri, E.** On the condition number of some spectral collocation operators and their finite element preconditioning. (English summary) **95m:65204**
- Zhang, Sheng** Preconditioning of the stiffness matrix of local refined triangulation. (English summary) **95a:65212**

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- Agrawal, Ajit** (with Klein, Philip N.; Ravi, R.) Cutting down on fill using nested dissection: provably good elimination orderings. (English summary) **95k:65048**
- Alvarado, Fernando L.** (with Pothén, Alex; Schreiber, Robert S.) Highly parallel sparse triangular solution. (English summary) **95m:65086**
- (with Wang, Zian) Direct sparse interval hull computations for thin non- M -matrices. (English and Russian summaries) **95d:65046**
- Braudai, Richard A.** (with Friedland, Shmuel; Pothén, Alex) The sparse basis problem and multilinear algebra. (English summary) **95i:65070**
- Carpraux, J.-F.** (with Erhel, J.; Sadkane, M.) Spectral portrait for non-Hermitian large sparse matrices. (English and German summaries) **95i:65071**
- Cavers, Ian A.** A hybrid tridiagonalization algorithm for symmetric sparse matrices. (English summary)
- Deng, Jian Xin** Preconditioning Krylov subspace methods for solving large sparse linear algebraic systems. (Chinese. English summary) **95j:65046**
- Eisenstat, Stanley C.** (with Liu, Joseph W. H.) Structural representations of Schur complements in sparse matrices. (English summary) **95k:65049**
- Erhel, J.** *see* **Carpraux, J.-F.**; et al., **95i:65071**
- Evans, David J.** *see* **Wan, C. R.**
- Friedland, Shmuel** *see* **Braudai, Richard A.**; et al., **95i:65070**
- Gilbert, John Russell, Jr.** (with Ng, Esmond G.) Predicting structure in nonsymmetric sparse matrix factorizations. (English summary) **95k:65050**

- (with Ng, Esmond G.; Peyton, Barry W.) An efficient algorithm to compute row and column counts for sparse Cholesky factorization. (English summary) **95j:65047**
- Gravanis, George A.** A three-dimensional symmetric linear equation solver. (English summary)
- Gupta, Anoop** *see* **Rothberg, Edward**, **95f:65095**
- Jones, Mark T.** (with Plassmann, Paul E.) The efficient parallel iterative solution of large sparse linear systems. (English summary) **95m:65087**
- Kaltofen, Erich** Analysis of Coppersmith's block Wiedemann algorithm for the parallel solution of sparse linear systems. (English summary) **95f:65094**
- Klein, Philip N.** *see* **Agrawal, Ajit**; et al., **95k:65048**
- Liu, Joseph W. H.** *see* **Eisenstat, Stanley C.**, **95k:65049**
- Matstoms, Pontus** ★ Sparse QR factorization with applications to linear least squares problems. (English summary) **95c:65072**
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- Plassmann, Paul E.** *see* **Jones, Mark T.**, **95m:65087**
- Pothén, Alex** *see* **Braudai, Richard A.**; et al., **95i:65070** and **Alvarado, Fernando L.**; et al., **95m:65086**
- Ravi, R.** *see* **Agrawal, Ajit**; et al., **95k:65048**
- Rothberg, Edward** (with Gupta, Anoop) An efficient block-oriented approach to parallel sparse Cholesky factorization. (English summary) **95f:65095**
- Alternatives for solving sparse triangular systems on distributed-memory multiprocessors. (English summary)
- Sadkane, M.** *see* **Carpraux, J.-F.**; et al., **95i:65071**
- Schreiber, Robert S.** Scalability of sparse direct solvers. (English summary) **95m:65088**
- *see also* **Alvarado, Fernando L.**; et al., **95m:65086**
- Šiljak, Dragoslav D.** *see* **Žečević, A. I.**, **95b:65066**
- Wan, C. R.** (with Evans, David J.) A systolic array architecture for QR decomposition of block structured sparse systems. (English summary)
- Wang, Zian** *see* **Alvarado, Fernando L.**, **95d:65046**
- Žečević, A. I.** (with Šiljak, Dragoslav D.) Balanced decompositions of sparse systems for multilevel parallel processing. (English summary) **95b:65066**

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- Arbenz, Peter** (with Golub, Gene H.) Matrix shapes invariant under the symmetric QR algorithm. (English summary) **95m:65060**
- Axelsson, Owe** (with Neytcheva, M.) Algebraic multilevel iteration method for Stieltjes matrices. (English summary) **95g:65046**
- Cai, Xiao-Chuan** The use of pointwise interpolation in domain decomposition methods with nonnested meshes. (English summary) **95j:65158**
- Calvetti, D.** (with Reichel, Lothar) Application of a block modified Chebyshev algorithm to the iterative solution of symmetric linear systems with multiple right hand side vectors. (English summary) **95a:65059**
- Cleary, Andrew J.** *see* **Kratzer, Steven G.**, **95m:65227**
- Cliffe, K. A.** (with Garratt, T. J.; Spence, Alastair) Eigenvalues of block matrices arising from problems in fluid mechanics. (English summary) **95g:65053**
- Diaz, J. C.** (with Jordan, K. E.) The communication patterns of nested preconditionings for massively parallel architectures. (English summary) (see **95a:00010**)
- Erëmin, A. Yu.** *see* **Kharchenko, S. A.**, **95i:65069**
- Gallivan, K.** (with Hansen, Per Christian; Ostromsky, Tz.; Zlatev, Z.) A locally optimized reordering algorithm and its application to a parallel sparse linear system solver. (English and German summaries) **95j:65026**
- Gambolati, Giuseppe** (with Pini, Giorgio; Putti, Mario) Nested iterations for symmetric eigenproblems. (English summary) **95k:65039**
- Garratt, T. J.** *see* **Cliffe, K. A.**; et al., **95g:65053**
- (George, Alan)** *see* **Graph theory and sparse matrix computation**, **95i:00027**
- (Gilbert, John Russell, Jr.)** *see* **Graph theory and sparse matrix computation**, **95i:00027**
- Golub, Gene H.** *see* **Arbenz, Peter**, **95m:65060**
- Griebel, Michael** (with Oswald, Peter) On additive Schwarz preconditioners for sparse grid discretizations. (English summary) **95a:65188**
- Hansen, Per Christian** *see* **Gallivan, K.**; et al., **95j:65026**
- Heath, Michael T.** (with Raghavan, Padma) A Cartesian parallel nested dissection algorithm. (English summary) **95m:65046**
- Jbilou, Khalide** (with Sadok, Hassane) Analysis of some vector extrapolation methods for solving systems of linear equations. (English summary) **95m:65053**
- Jones, Mark T.** (with Plassmann, Paul E.) Scalable iterative solution of sparse linear systems. (English summary)
- Jordan, K. E.** *see* **Diaz, J. C.**, **(95a:00010)**
- Karnachuk, V. I.** (with Larin, M. R.) ★ Реализация прямых методов для решения систем линейных алгебраических уравнений с разреженной матрицей. (Russian) [Realization of direct methods for solving systems of linear algebraic equations with a sparse matrix]
- Kharchenko, S. A.** (with Erëmin, A. Yu.) Eigenvalue translation based preconditioners for the GMRES(k) method. (English summary) **95i:65069**
- Kratzer, Steven G.** (with Cleary, Andrew J.) Sparse matrix factorization on SIMD parallel computers. (English summary) **95m:65227**
- Larin, M. R.** *see* **Karnachuk, V. I.**
- (Liu, Joseph W. H.)** *see* **Graph theory and sparse matrix computation**, **95i:00027**
- Neytcheva, M.** *see* **Axelsson, Owe**, **95g:65046**
- O'Leary, Dianne P.** Some themes in Gene H. Golub's work on iterative methods. (English summary) (see **95m:65001**)
- Ostromsky, Tz.** *see* **Gallivan, K.**; et al., **95j:65026**
- Oswald, Peter** *see* **Griebel, Michael**, **95a:65188**
- Pini, Giorgio** *see* **Gambolati, Giuseppe**; et al., **95k:65039**
- Plassmann, Paul E.** *see* **Jones, Mark T.**
- Pothén, Alex** Predicting the structure of sparse orthogonal factors. (English summary) **95c:15029**
- Putti, Mario** *see* **Gambolati, Giuseppe**; et al., **95k:65039**

- Raghavan, Padma *see* Heath, Michael T., 95m:65046
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 Stern, Julio M. (with Vavasis, Stephen A.) Nested dissection for sparse nullspace bases. (English summary) 95b:65045
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 Weiss, Rüdiger Minimization properties and short recurrences for Krylov subspace methods. (English summary) 95k:65036
 Wright, Stephen Joseph Stable parallel elimination for boundary value ODEs. 95f:65152
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- Atanassova, Lidiya (with Herzberger, Jürgen) On positive solutions of linear inequalities that arise in the determination of the R -order of one-step methods. (Russian. English and Ukrainian summaries) 95b:65029
 Balakin, G. V. On the possibility of solving systems of linear integer equations by the method of isolation and estimation of separate unknowns. (Russian. Russian summary) 95a:65082
 Bini, Dario (with Gemignani, Luca) Fast parallel computation of the polynomial remainder sequence via Bézout and Hankel matrices. (English summary) 95j:65048
 Bohlender, G. (with Kersten, T.; Trier, R.) Implicit matrix multiplication with maximum accuracy on various transputer networks. (English and German summaries) 95i:65072
 Gemignani, Luca *see* Bini, Dario, 95j:65048
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 Robey, Thomas H. (with Sulsky, Deborah L.) Row ordering for a sparse QR decomposition. (English summary)
 Schatzman, Michelle Higher order alternate directions methods. (English summary) 95c:65073
 Shen, Guang Xing A fast algorithm for the multiplication of symmetric r -circulant matrices. (Chinese. English and Chinese summaries)
 Sulsky, Deborah L. *see* Robey, Thomas H.
 Trier, R. *see* Bohlender, G.; et al., 95i:65072
 Zhang, Wei Tao The principles of rank preservation for new elements being led into the GEM (graded eigenvector method). (English and Chinese summaries)

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- Alpay, Daniel (with Ball, Joseph A.; Gohberg, Israel; Rodman, Leiba) The two-sided residue interpolation in the Stieltjes class for matrix functions. (English summary) 95c:47014
 Anderson, Donald G. M. (with Barakat, Richard) Necessary and sufficient conditions for a Mueller matrix to be derivable from a Jones matrix. (English summary) 95c:78004
 Anderson, Ned (with Manley, D.) A matrix extension of Winograd's inner product algorithm. (English summary)
 Bai, Zhong Zhi (with Wang, De Ren) Asynchronous multisplitting nonlinear Gauss-Seidel type method. (English summary) 95c:65077
 Ball, Joseph A. *see* Alpay, Daniel; et al., 95c:47014
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 Bendtsen, Claus (with Hansen, Per Christian; Madsen, Kaj; Nielsen, Hans Bruun; Pinar, Mustafa C.) Implementation of QR up- and downdating on a massively parallel computer. (English summary)
 Bialecki, Bernard Cyclic reduction and FACR methods for piecewise Hermite bicubic orthogonal spline collocation. (English summary)
 Chen, Guan Rong (with Koç, Çetin Kaya) Computing matrix-valued Nevanlinna-Pick interpolation. (English summary) 95b:30058
 Chien, Mao Ting Numerical computation and circularity of higher numerical range. (English summary) 95i:15030
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 Gasca, M. (with Peña, J. M.) Corner cutting algorithms and totally positive matrices. (English summary) 95g:65199
 — (with Micchelli, Charles A.; Peña, J. M.) Banded matrices with banded inverses. III. p -slanted matrices. (English summary) 95i:65026
 Geurts, A. J. (with Praagman, C.) ★ A Fortran subroutine for column reduction of polynomial matrices. (English summary) 95d:65005
 Gohberg, Israel (with Ol'shevskii, V. R.) Fast state space algorithms for matrix Nehari and Nehari-Takagi interpolation problems. (English summary) 95c:47021
 — *see also* Alpay, Daniel; et al., 95c:47014
 Hansen, Per Christian *see* Bendtsen, Claus; et al.
 Ipsen, Ilse C. F. (with Meyer, Carl D.) Uniform stability of Markov chains. (English summary) 95h:65110
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 Kelling, B. Geometrische Untersuchungen zur eingeschränkten Lösungsmenge linearer Intervallgleichungssysteme. [Geometric investigation of the restricted solution set of systems of linear interval equations] 95f:65073
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 Kon'kova, T. Ya. (with Simonova, V. N.) The library of MATLAB functions for polynomial matrices. (Russian. English and Russian summaries)
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 Madsen, Kaj (with Toft, Ole) A parallel method for linear interval equations. (English and Russian summaries) 95m:65090
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 Pan, Yan Zhong Existence and uniqueness of solutions to two classes of load identification equations. (Chinese. English and Chinese summaries)
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 Pleshchinskaya, I. E. (with Pleshchinskii, N. B.) An algorithm for solving boundary value problems for systems of first-order partial differential equations with constant coefficients. (Russian)
 Pleshchinskii, N. B. *see* Pleshchinskaya, I. E.
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 Szidarovszky, Ferenc (with Palusinski, Olgierd A.) A special matrix equation and its application in microelectronics. (English summary) 95c:94065
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 Volkov, I. K. (with Zuev, S. M.) On identifiability of mathematical models of evolutionary processes from data of discrete measurements of state vector. (English summary) 95h:93027
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65Gxx Error analysis

65G05 Roundoff error

- Athanasopoulos, Bessy Probabilistic approach to the rounding problem with applications to fair representation. (English summary) 95k:65051
 Chesneaux, Jean-Marie The equality relations in scientific computing. (English summary)
 Cohen, Alan Max Is the polynomial so perfidious? (English summary) 95g:65061
 Coste, Nicolas The statistic study of the rounding errors in iterative methods.
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 Tsuji, Kumiko Floating-point number solutions in a simple linear equation with addition algorithm. (English summary) 95a:65083
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- Bojańczyk, Adam W. (with Brent, Richard P.; de Hoog, F. R.; Sweet, D. R.) On the stability of the Bareiss and related Toeplitz factorization algorithms. (English summary) 95k:65030
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 Chen, Ke Error equidistribution and mesh adaptation. (English summary) 95a:65156
 Corless, Robert M. Error backward. (English summary) 95c:65065
 Evans, G. A. The estimation of errors in numerical quadrature. (English summary)
 Feichtinger, Hans G. (with Gröchenig, Karlheinz) Error analysis in regular and irregular sampling theory. (English summary) 95b:65160
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 Jin, Da Yong (with Yang, Cheng En) Network algorithms for the data rounding problem. (Chinese. English summary)
 Kågström, Bo A perturbation analysis of the generalized Sylvester equation $(AR - LB, DR - LE) = (C, F)$. (English summary) 95g:65044
 Kreinovich, V. Ya. Error estimation for indirect measurements is exponentially hard. (English summary) 95c:65130
 Li, Gang *see* Gevers, Michel, 95c:93003
 Litvinov, G. L. Approximate construction of rational approximations and the effect of error autocorrection. Applications. (English summary) 95a:65029
 Pyt'ev, Yu. P. The reliability of interpretation of experimental results on the basis of approximate models. (English summary)
 Saad, Yusef Theoretical error bounds and general analysis of a few Lanczos-type algorithms. (English summary) 95f:65071
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 Tyrtshnikov, E. E. The algorithm structure and V -matrices. (English summary) 95a:65068
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65G10 Interval and finite arithmetic

- Akyildiz, Yilmaz (with Al-Suwaiyel, Mohammad I.) No pathologies for interval Newton's method. (English and Russian summaries) **95c:65075**
- Alefeld, G. (with Mayer, Günter) The Cholesky method for interval data. (English summary) **95c:65076**
- Al-Suwaiyel, Mohammad I. see Akyildiz, Yilmaz, **95c:65075**
- Bocher, Pavel Application of the extended interval arithmetic to a real initial value problem. (English and Russian summaries) **95f:65096**
- Carstensen, Carsten (with Petković, Miodrag S.) An improvement of Gargantini's simultaneous inclusion method for polynomial roots by Schröder's correction. (English summary) **95b:65067**
- Deif, A. S. see Seif, N. P.; et al., **95c:65047**
- Gan, Qi (with Yang, Qing; Hu, Chen-Yi) Parallel all-row preconditioned interval linear solver for nonlinear equations on multiprocessors. (English summary) **95b:65030**
- Heindl, G. Inclusion methods in solving engineering problems. (see **95i:65010**)
- Herzberger, Jürgen Basic definitions and properties of interval arithmetic. (see **95i:65010**)
- Hu, Chen-Yi see Gan, Qi; et al., **95b:65030**
- Hussein, S. A. see Seif, N. P.; et al., **95c:65047**
- Jansson, C. (with Rump, S. M.) Self-validating methods: some recent developments. **95c:65097**
- Kelling, B. Geometrische Untersuchungen zur eingeschränkten Lösungsmenge linearer Intervallgleichungssysteme. [Geometric investigation of the restricted solution set of systems of linear interval equations] **95i:65073**
- Kreinovich, V. Ya. see Rohn, Jiří, **95c:65053**
- Lakeev, A. V. (with Noskov, S. I.) Description of the solution set of a linear equation with an interval-defined operator and right-hand side. (Russian) **95b:65068**
- (with Noskov, S. I.) On the solution set of a linear equation with an interval-defined operator and right-hand side. (Russian. Russian summary) **95m:65089**
- Madsen, Kaj (with Toft, Ole) A parallel method for linear interval equations. (English and Russian summaries) **95m:65090**
- Markov, Svetoslav M. Some interpolation problems involving interval data. (English and Russian summaries) **95i:65074**
- Martins, M. M. (with Trigo, M. E.) On the convergence of the interval MAOR method. (English summary) **95b:65031**
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- Nesterov, V. M. How to use monotonicity-type information to get better estimates of the range of real-valued functions. (English and Russian summaries) **95b:65032**
- Neumaier, Arnold Global, rigorous and realistic bounds for the solution of dissipative differential equations. I. Theory. (English and German summaries) **95f:65098**
- Noskov, S. I. see Lakeev, A. V., **95b:65068** and **95m:65089**
- Petković, Ljiljana D. (with Trajković, Miroslav) On some optimal inclusion approximations by disks. (English and Russian summaries) **95c:65046**
- Petković, Miodrag S. see Carstensen, Carsten, **95b:65067**
- Plum, Michael Enclosures for solutions of parameter-dependent nonlinear elliptic boundary value problems: theory and implementation on a parallel computer. (English and Russian summaries) **95c:65052**
- Reith, R. (with Ulrich, Christian P.) Coarse-grain parallelizations of interval algorithms decomposing dense matrices and solving triangular systems on multicomputers. (English and German summaries) **95i:65075**
- Rohn, Jiří Cheap and tight bounds: the recent result by E. Hansen can be made more efficient. (English and Russian summaries) **95i:65076**
- (with Kreinovich, V. Ya.) Computing exact componentwise bounds on solutions of linear systems with interval data is NP-hard. (English summary) **95k:65053**
- Rump, S. M. see Jansson, C., **95c:65097**
- Seif, N. P. (with Hussein, S. A.; Deif, A. S.) The interval Sylvester equation. (English and German summaries) **95c:65047**
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- Atanassova, Lidiya On the simultaneous determination of the zeros of an analytic function inside a simple smooth closed contour in the complex plane. (English summary) **95g:65063**
- Avila, T. see Rojo, Óscar; et al., **95m:65066**
- Du, Kaisheng (with Kearfott, R. Baker) The cluster problem in multivariate global optimization. (English summary) **95b:90126**
- Edelman, Alan (with Murakami, Hiroshi) Polynomial roots from companion matrix eigenvalues. (English summary) **95f:65075**
- Ermakov, Oleg B. Solving systems of ordinary differential equations using Adams' interpolation method with guaranteed accuracy. (English and Russian summaries)
- Filippov, A. F. A strict error estimate for the approximate computation of the solution of a system of differential equations. (Russian. English summary) **95i:65101**
- Glazunov, N. M. On interval extensions of computer algebra systems and on an extension of interval systems. (Russian. Russian summary)
- Hammer, R. (with Hocks, M.; Kulisch, U.; Ratz, D.) ★ Numerical toolbox for verified computing. I. (English summary) **95c:65001**
- Hocks, M. see Hammer, R.; et al., **95c:65001**
- Jansson, C. On self-validating methods for optimization problems. **95m:90069**
- Kearfott, R. Baker An interval branch and bound algorithm for bound constrained optimization problems. (English summary) **95g:90073**
- see also Du, Kaisheng, **95b:90126**
- Kozina, Galina L. (with Perepelitsa, V. A.) Interval spanning trees problem: solvability and computational complexity. (English and Russian summaries) **95k:90114**
- Kreinovich, V. Ya. (with Lakeev, A. V.; Noskov, S. I.) Optimal solution of interval linear systems is intractable (NP-hard). (English and Russian summaries) **95k:65137**

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- Forster, W.** Some computational methods for systems of nonlinear equations and systems of polynomial equations. (English summary) **95f:65115**
- Gabriel, Steven A.** (with Pang, Jong-Shi) A trust region method for constrained nonsmooth equations. (English summary) (see 95f:90004)
- Girko, V. L.** (with Babani, A.; Kurotschka, V.) Systems of linear algebraic equations with random coefficients when the regularization matrices are used. (English summary) **95c:60056**
- Huber, Birkett** (with Sturmfels, Bernd) A polyhedral method for solving sparse polynomial systems. (English summary) **95m:65100**
- Jacob, Breno Pinheiro** (with Ebecken, Nelson Francisco Favilla) An optimized implementation of the Newmark/Newton-Raphson algorithm for the time integration of nonlinear problems. (English summary)
- Kuang, Jiao Xun** (with Lu, Lian Hua) On the unique solvability of the nonlinear systems in MDBM. (English summary) **95c:65107**
- Kurotschka, V.** see Girko, V. L.; et al., 95c:60056
- Kuznetsov, E. B.** (with Shalashilin, V. I.) The Cauchy problem as a problem of continuation with respect to the best parameter. (Russian. Russian summary) **95i:34016**
- Lin, Zheng Hua** A mixed Newton and second-order quasi-Newton method. (Chinese. English summary)
- Lu, Lian Hua** see Kuang, Jiao Xun, 95c:65107
- Moret, Igor** The approximation of generalized turning points by Krylov subspace methods. (English summary) **95j:65066**
- Pang, Jong-Shi** see Gabriel, Steven A., (95f:90004)

- Pospíšek, Miroslav** Convergent algorithms suitable for the solution of the semiconductor device equations. (English summary) **95m:65213**
- Ren, Xiu Min** Newton-like methods for determining zeros of nonsmooth order-convex operators. (Chinese. English summary) **95f:65124**
- Robinson, Stephen M.** Newton's method for a class of nonsmooth functions. (English summary) **95c:65093**
- Shalashilin, V. I.** *see* Kuznetsov, E. B. **95i:34016**
- Soleev, A.** *see* Bryuno, A. D. **95g:14055**
- Sturmels, Bernd** *see* Huber, Birkett. **95m:65100**
- Swaby, P. K.** *see* Yee, H. C. **95k:65064**
- Wang, Chang Yin** *see* Zhao, Shuang Suo. **95h:65051**
- Wang, Dao Liu** Some aspects of Hamiltonian systems and symplectic algorithms. (English summary) **95b:58069**
- Yee, H. C.** (with Swaby, P. K.) Global asymptotic behavior of iterative implicit schemes. (English summary) **95k:65064**
- Zhao, Shuang Suo** (with Wang, Chang Yin) A parallel computation scheme for implicit Runge-Kutta methods and the iteratively B -convergence of its Newton iterative process. (English summary) **95h:65051**
- Zhou, Shu Zi** (with Chen, Yong Jin) The damped Newton method for solving a class of B -differentiable equations. (Chinese. English and Chinese summaries)

65H17 Eigenvalues, eigenvectors and bifurcation problems [see also 58C40, 58E07, 58F14, 90C30]

- Abdel-Aziz, Mohammed R.** Safeguarded use of the implicit restarted Lanczos technique for solving non-linear structural eigensystems. (English summary) **95f:65112**
- Agarwal, Ravi Prakash** *see* Goh, C. J.; et al.
- Ahués, Mario** (with Attoh, Kwami) A refinement method for maximal deflating bases of regular pencils. (English summary) **95f:65113**
- Attoh, Kwami** *see* Ahués, Mario. **95f:65113**
- Corless, Robert M.** What good are numerical simulations of chaotic dynamical systems? (English summary) **95f:65114**
- García-Olivares, Antonio** (with González Muñoz, Antonio) Fokker-Planck equations in the simulation of complex systems. (English summary) **95a:65094**
- Goh, C. J.** (with Teo, Kok Lay; Agarwal, Ravi Prakash) Computing eigenvalues of Sturm-Liouville problems via optimal control theory. (English summary)
- González Muñoz, Antonio** *see* García-Olivares, Antonio. **95a:65094**
- Kartyshev, S. V.** On the cubic convergence of the method of inverse iterations for the solution of a nonlinear spectral problem. (Russian. Russian summary) **95g:65076**
- Teo, Kok Lay** *see* Goh, C. J.; et al.
- Yang, Wei Ming** (with Zheng, Wei Mou) Computation of dimensions for strange attractors by the box counting renormalization method. (English summary) **95b:65073**
- Zheng, Wei Mou** *see* Yang, Wei Ming. **95b:65073**

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- Beyn, W.-J.** Numerical analysis of homoclinic orbits emanating from a Takens-Bogdanov point. (English summary) **95e:58132**
- Debraux, Laurent** Numerical computation of a branch of invariant circles starting at a Hopf bifurcation point. (English summary) **95f:65157**
- Garratt, T. J.** (with Moore, Gerald; Spence, Alastair) A generalised Cayley transform for the numerical detection of Hopf bifurcations in large systems. (English summary) **95f:65109**
- Melman, A.** Numerical solution of a secular equation. (English summary) **95j:65050**
- Moore, Gerald** *see* Garratt, T. J.; et al. **95f:65109**
- Shannon, Chris** Regular nonsmooth equations. (English summary) **95c:49025**
- Spence, Alastair** *see* Garratt, T. J.; et al. **95f:65109**
- Ye, Rui Song** A direct method for calculating simple higher-order Z_2 -symmetry-breaking bifurcation points. (Chinese. English and Chinese summaries) **95m:58032**

65H20 Global methods, including homotopy approaches [see also 58C30, 90C30]

- Chen, Kai Zhou** (with Yang, Zai Fu; Liang, Zheng Li) A simplicial homotopy algorithm for computing zero points on polytopes. (English summary) **95e:65055**
- Feng, Guo Chen** *see* Yu, Bo. **95c:65080**
- Forster, W.** Some computational methods for systems of nonlinear equations and systems of polynomial equations. (English summary) **95f:65115**
- Gatermann, Karin** *see* Verschelde, Jan. **95m:65101**
- Haegemans, Ann** *see* Verschelde, Jan. **95f:65117**
- Huber, Birkett** (with Sturmels, Bernd) A polyhedral method for solving sparse polynomial systems. (English summary) **95m:65100**
- Li, Tien-Yien** (with Wang, Xiao Shen) Higher order turning points. (English summary) **95f:65116**
- Liang, Zheng Li** *see* Chen, Kai Zhou; et al. **95e:65055**
- Sturmels, Bernd** *see* Huber, Birkett. **95m:65100**
- Verschelde, Jan** (with Haegemans, Ann) Homotopies for solving polynomial systems within a bounded domain. (English summary) **95f:65117**
- (with Gatermann, Karin) Symmetric Newton polytopes for solving sparse polynomial systems. (English summary) **95m:65101**
- Wang, De Ren** *see* Zhao, Feng Guang. **95a:65095**
- Wang, Xiao Shen** *see* Li, Tien-Yien. **95f:65116**
- Yang, Zai Fu** *see* Chen, Kai Zhou; et al. **95e:65055**
- Yu, Bo** (with Feng, Guo Chen) The random product homotopy for solving polynomial systems in $C^{k_1} \times C^{k_2} \times \dots \times C^{k_n}$. (English summary) **95c:65080**
- Zhao, Feng Guang** (with Wang, De Ren) On the global algorithm for finding zeros of general mappings over R^2 . (English summary) **95a:65095**

Items with secondary classifications in 65H20

- Brown, Peter N.** (with Saad, Youcef) Convergence theory of nonlinear Newton-Krylov algorithms. (English summary) **95c:65052**

- Collins, E. G., Jr.** *see* Ge, Yuzhen; et al. **95b:93031**
- Cools, Ronald** *see* Verschelde, Jan. **95j:65056**
- Davis, L. D.** *see* Ge, Yuzhen; et al. **95b:93031**
- Feng, Y. T.** (with Perić, Djordje; Owen, D. R. J.) Determination of travel directions in path-following methods. (English summary) **95m:73068**
- Gao, Tang An** (with Wang, Ze Ke) On the complexity of a PL homotopy algorithm for zeros of polynomials. (English summary) **95f:65102**
- (with Wang, Ze Ke) Homotopy methods and a generalization of Rouché theorem. **95b:58015**
- Ge, Yuzhen** (with Collins, E. G., Jr.; Watson, Layne T.; Davis, L. D.) An input normal form homotopy for the L^2 optimal model order reduction problem. (English summary) **95b:93031**
- McLachlan, Robert I.** Comment on: "Poisson schemes for Hamiltonian systems on Poisson manifolds" [Comput. Math. Appl. 27 (1994), no. 12, 7–16; MR 95d:65069] by W. J. Zhu and M. Z. Qin. — *see also* Zhu, Wen Jie
- Owen, D. R. J.** *see* Feng, Y. T.; et al. **95m:73068**
- Perić, Djordje** *see* Feng, Y. T.; et al. **95m:73068**
- Qin, Meng Zhao** *see* Zhu, Wen Jie. **95d:65069** and **McLachlan, Robert I.**
- Richter, Stephen** *see* Watson, Layne T.; et al. **95b:93074**
- Saad, Youcef** *see* Brown, Peter N. **95c:65052**
- Serdyukova, S. I.** Construction of a quasi-Jordan normal form of resolvent matrix for parabolic difference boundary-value problems. (English summary) **95f:65168**
- Shub, Michael** Some remarks on Bezout's theorem and complexity theory. **95a:14002**
- Verschelde, Jan** (with Cools, Ronald) Symmetric homotopy construction. (English summary) **95j:65056**
- Wang, Ze Ke** *see* Gao, Tang An. **95b:58015** and **95f:65102**
- Watson, Layne T.** (with Richter, Stephen; Žigic, Dragan) Homotopy methods in control system design and analysis. (English summary) **95b:93074**
- *see also* Ge, Yuzhen; et al. **95b:93031**
- Yakoubsohn, Jean-Claude** Une constante universelle pour la convergence de la méthode de Newton. (English and French summaries) [A universal constant for the convergence of the Newton method and application to the classical homotopy method] **95m:65099**
- Yang, Shu Lang** Some problems concerning nonzero solutions and eigenvectors. (Chinese. English and Chinese summaries) **95k:47084**
- Zhu, Wen Jie** (with Qin, Meng Zhao) Poisson schemes for Hamiltonian systems on Poisson manifolds. (English summary) **95d:65069**
- (with Qin, Meng Zhao) Reply to: "Comment on: 'Poisson schemes for Hamiltonian systems on Poisson manifolds'" [Comput. Math. Appl. 29 (1995), no. 3, 1–2] by R. M. McLachlan. — *see also* McLachlan, Robert I.
- Žigic, Dragan** *see* Watson, Layne T.; et al. **95b:93074**

65H99 None of the above, but in this section

Items with secondary classifications in 65H99

- Abbaoui, K.** (with Cherruault, Yves) Convergence of Adomian's method applied to differential equations. (English summary) **95g:65090**
- Blanchard, Paul R.** The dynamics of Newton's method. (see **95m:30036**)
- Cherruault, Yves** *see* Abbaoui, K. **95g:65090**
- Di Lena, G.** (with Messano, B.; Roux, Delfina) On the successive approximations method for isotone functions. (Italian summary) **95b:26015**
- Ellacott, S. W.** Techniques for the mathematical analysis of neural networks. (English summary) **95f:92002**
- Grosz, L.** (with Roll, C.; Schönauer, W.) A black-box solver for the solution of general nonlinear functional equations by mixed FEM. (English summary) (see **95d:65008**)
- Heintz, Joos** (with Roy, Marie-Françoise; Solernó, Pablo) Single exponential path finding in semi-algebraic sets. II. The general case. (English summary) **95i:14054**
- Iserles, Arieh** Convergence acceleration as a dynamical system. (English summary) **95i:58155**
- Latouche, Guy** Newton's iteration for non-linear equations in Markov chains. (English summary) **95g:65190**
- März, Roswitha** (with Tischendorf, C.) Solving more general index-2 differential algebraic equations. (English summary) **95h:34007**
- Messano, B.** *see* Di Lena, G.; et al. **95b:26015**
- Roll, C.** *see* Grosz, L.; et al. **(95d:65008)**
- Roux, Delfina** *see* Di Lena, G.; et al. **95b:26015**
- Roy, Marie-Françoise** *see* Heintz, Joos; et al. **95i:14054**
- Schönauer, W.** *see* Grosz, L.; et al. **(95d:65008)**
- Solernó, Pablo** *see* Heintz, Joos; et al. **95i:14054**
- Tischendorf, C.** *see* März, Roswitha. **95h:34007**

65Jxx Numerical analysis in abstract spaces

- Tautenhahn, Ulrich** Optimal parameter choice for Tikhonov regularization in Hilbert scales. (English summary) **95c:65081**

Items with secondary classifications in 65Jxx

- Argyros, Ioannis K.** (with Szidarovszky, Ferenc) ★ The theory and applications of iteration methods. **95b:65001**
- Morton, K. W.** *see* Richtmyer, Robert D. **95b:65003**
- Richtmyer, Robert D.** (with Morton, K. W.) ★ Difference methods for initial-value problems. **95b:65003**
- Szidarovszky, Ferenc** *see* Argyros, Ioannis K. **95b:65001**

65J05 General theory

- Bauschke, H. H.** (with Borwein, Jonathan M.) On the convergence of von Neumann's alternating projection algorithm for two sets. (English summary) **95d:65048**

- Borwein, Jonathan M. *see* Bauschke, H. H., 95d:65048
- Butnariu, Dan (with Censor, Yair) Strong convergence of almost simultaneous block-iterative projection methods in Hilbert spaces. (English summary) 95b:65036
- Censor, Yair *see* Butnariu, Dan, 95b:65036
- Dibos, Françoise Analyse multichelle invariante par transformations projectives. (English and French summaries) [Projective invariant multiscale analysis] 95m:65102
- Hill, Adrian T. (with Süli, Endre) Upper semicontinuity of attractors for linear multistep methods approximating sectorial evolution equations. (English summary) 95j:65057
- Ji, Zhong Zhen *see* Wang, Bin, 95c:65056
- Pylyshkevich, V. Yu. The Galerkin method for abstract variational problems. (English summary) 95c:65082
- Pyt'ev, Yu. P. The reliability of interpretation of experimental results on the basis of approximate models. (English summary)
- Reinhardt, Hans-Jürgen A note on discretely compact operators. 95a:65096
- Süli, Endre *see* Hill, Adrian T., 95j:65057
- Takači, Arpad *see* Takači, Djurdjica, 95a:65097
- Takači, Djurdjica (with Takači, Arpad) The numerical solution of operator differential equations. (English summary) 95a:65097
- Vianello, Marco (with Zanollo, R.) On some connections between well-posedness and general properties of numerical methods. (English summary) 95m:65103
- Wang, Bin (with Ji, Zhong Zhen) The harmonious dissipative operators and the completely square conservative difference scheme in an explicit way. (English summary) 95c:65056
- Zanollo, R. *see* Vianello, Marco, 95m:65103

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- Dinh Nho Hào (with Reinhardt, Hans-Jürgen; Seiffarth, F.) Stable numerical fractional differentiation by mollification. (English summary) 95d:65020
- Egorov, A. D. On the convergence of a functional quadrature process for integrals with respect to Gaussian measures. (Russian. English and Russian summaries) 95a:65043
- Guo, Ben Yu Generalized stability of discretization and its applications to numerical solutions of nonlinear differential equations. 95d:65067
- Huang, Zheng Da The n -approximation numbers of integral operators. (Chinese. English and Chinese summaries) 95g:41036
- Kabanikhin, S. I. Convergence of finite-difference scheme inversion in problems of determining the coefficients in hyperbolic equations. (English summary) 95a:65152
- Leonov, A. S. Optimal simulation of deterministic dynamic systems using stable solutions of special reduction problems. 95g:93028
- Möller, H. Michael Systems of algebraic equations solved by means of endomorphisms. (English summary) 95c:68102
- Reinhardt, Hans-Jürgen *see* Dinh Nho Hào; et al., 95d:65020
- Saito, Naoki Simultaneous noise suppression and signal compression using a library of orthonormal bases and the minimum description length criterion. (English summary) 95c:86001
- Seiffarth, F. *see* Dinh Nho Hào; et al., 95d:65020
- Shinkarenko, G. A. Projection-difference approximations for variational problems of pyroelectricity. II. Discretization and solvability of nonstationary problems. (Russian. English summary) 95j:73062
- Tselnik, D. S. A bound for the remainder of the Hilbert-Schmidt series and other results on representation of solutions to the functional equation of the second kind with a self-adjoint compact operator as an infinite series. (English summary) 95m:47013

65J10 Equations with linear operators (do not use 65Fxx)

- Andrushkin, Roman I. Iterative method for a class of nonlinear eigenvalue problems. (English summary) 95c:65083
- Baiocchi, Claudio Discretization of parabolic problems. (Italian) 95i:65084
- Bezhaev, A. Yu. Methods for computing the optimal smoothing parameter in the construction of a variational spline. (Russian) (see 95b:65012)
- Spectral resolution of operators for the smoothing spline problem. (Russian) (see 95b:65012)
- Brill, M. Extrapolation using orthogonal polynomials and the Tikhonov regularization. (English summary) (see 95b:65006)
- Bukhnikashvili, I. A. On a particular form of polynomials for cyclic iterative processes. (Russian) 95d:65049
- Chenais, Denise (with Zerner, Martin; Paumier, Jean-Claude) Necessary and sufficient conditions for the numerical approximation of a partial differential equation depending on a small parameter. (English summary) 95g:65077
- (with Zerner, Martin) Necessary conditions to avoid numerical locking in singular perturbations. Application to arch equations. (English summary) 95g:65078
- Douglas, Craig C. A generalized multigrid theory in the style of standard iterative methods. (English summary) (see 95c:65005)
- El-Namory, A. R. M. On an abstract difference scheme. (English summary) 95d:65050
- Flippin, L. D., Jr. Interpolation-based condensation of algebraic semi-discrete models with frequency response application. (English summary)
- Gulin, A. V. On the theory of stability of symmetrizable difference schemes. (Russian. English and Russian summaries) 95j:65058
- Hou, Zong Yi *see* Li, He Nong, 95c:65056
- Huang, Yun Qing Time discretization schemes for an integro-differential equation of parabolic type. (English summary) 95c:65084
- Isernagen, V. Error bounds for projection-type iterative methods in solving linear operator equations. (English summary) 95b:65074
- Jorge, J. C. (with Lisbona, F.) Contractivity results for alternating direction schemes in Hilbert spaces. (English summary) 95f:65118
- Karimova, D. Kh. A comparison of versions of the relaxation method in the critical case. (Russian. Russian and Tajiki summaries) 95c:65057
- Koshelev, I. E. A modification of the two-grid method for the approximate solution of operator equations of the first kind. (Russian) 95f:65119
- Lardy, L. J. The projection Kantorovich method for eigenvalue problems. (English summary) 95c:65058
- Lazaar, Saïda (with Liandrát, Jacques; Tchamitchian, Philippe) Algorithme à base d'ondelettes pour la résolution numérique d'équations aux dérivées partielles à coefficients variables. (English and French summaries) [Wavelet algorithm for the numerical solution of variable coefficient partial differential equations] 95b:65037
- Li, He Nong (with Hou, Zong Yi) A generalization of Arcangeli's method for operator equations of the first kind in which the operator and the right side are given approximately. (Chinese. English and Chinese summaries) 95k:65056
- Liandrát, Jacques *see* Lazaar, Saïda; et al., 95b:65037
- Lisbona, F. *see* Jorge, J. C., 95f:65118
- Louis, A. K. Generalized conjugate gradient methods. (English summary) 95f:65120
- Marchuk, G. I. Adjoint equations and global change problems. (English summary) 95i:65085
- Matus, P. P. *see* Vabishchevich, P. N.; et al., 95f:65122
- Nair, M. Thamban On accelerated refinement methods for operator equations of the second kind. 95c:65085
- Neubauer, A. On converse and saturation results for regularization methods. 95f:65121
- Palencia de Lara, C. Stability of rational multistep approximations of holomorphic semigroups. (English summary) 95g:65079
- Paumier, Jean-Claude *see* Chenais, Denise; et al., 95g:65077
- Plato, R. Die Effizienz des Diskrepanzprinzips für Verfahren vom Typ der konjugierten Gradienten. (German summary) [The efficiency of the discrepancy principle for conjugate gradient type methods] 95c:65086
- Rüde, Ulrich Error estimates based on stable splittings. (English summary) 95j:65059
- Savchuk, V. F. Regularization of linear equations in a Hilbert space. (Russian. English and Russian summaries) 95a:65098
- Serovaiskii, S. Ya. The quasilinearization method under conditions of the noninvertibility of the derivative of an operator. (Russian. English, Russian and Kazakh summaries) 95b:65075
- Shcheglik, V. S. *see* Vabishchevich, P. N.; et al., 95f:65122
- Smagin, V. V. Coercive error estimates for the projection and the projection-difference methods for parabolic equations. (Russian. Russian summary) 95m:65104
- Speckert, M. On iterative methods for linear equations involving unbounded operators. (English summary) 95c:65059
- Szyld, Daniel B. Equivalence of conditions for convergence of iterative methods for singular equations. (English summary) 95a:65099
- Tabarintseva, E. V. *see* Tanana, V. P., 95j:65060
- Tanana, V. P. (with Tabarintseva, E. V.) A new approach to the regularization of ill-posed problems. (Russian) 95j:65060
- Tchamitchian, Philippe *see* Lazaar, Saïda; et al., 95b:65037
- Uchenov, V. N. Regularized solutions in subspaces reproducible by a cone. (Russian) (see 95b:00012)
- Vabishchevich, P. N. (with Matus, P. P.; Shcheglik, V. S.) Difference schemes with variable weights for second-order evolution equations. (Russian. English and Russian summaries) 95f:65122
- Wade, J. G. A convergence theory for fully Galerkin approximations of parabolic PDE in inverse problems. (English summary) 95i:65086
- Zabrejko, P. P. *see* Zabrejko, A. P., 95f:65087
- Zabrejko, A. P. (with Zabrejko, P. P.) Chebyshev polynomial iterations and approximate solutions of linear operator equations. (English summary) 95i:65087
- Zerner, Martin *see* Chenais, Denise; et al., 95g:65077 and 95g:65078

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- Cao, Wei Ping (with Ma, Ji Pu) Perturbation of A_0^* . (English summary) 95k:47016
- Dahmen, Wolfgang (with Prössdorf, Siegfried; Schneider, Reinhold) Wavelet approximation methods for pseudodifferential equations. II. Matrix compression and fast solution. (English summary) 95d:65149
- Decomposition of refinable spaces and applications to operator equations. (English summary) 95g:47100
- (with Prössdorf, Siegfried; Schneider, Reinhold) Wavelet approximation methods for pseudodifferential equations. I. Stability and convergence. 95g:65148
- Dragomir, Sever Silvestru On existence of ϵ -solutions for some operatorial equations in Hilbert spaces. (English summary)
- Dzishkariani, A. V. (with Manveliani, G. S.) On the superconvergence of an approximate projection method with one iteration. (Russian) 95b:65135
- Eirola, Timo *see* Krasnosel'skii, A. M.; et al., 95k:65035
- Engl, Heinz W. (with Grever, Wilhelm) Using the L-curve for determining optimal regularization parameters. (English summary) 95k:65059
- Gavriluk, I. P. (with Makarov, Vladimir Leonidovich) The Cayley transform and the solution of an initial value problem for a first order differential equation with an unbounded operator coefficient in Hilbert space. (English summary) 95b:34096
- George, Santhosh (with Nair, M. Thamban) A class of discrepancy principles for the simplified regularization of ill-posed problems. (English summary) 95m:65106
- (with Nair, M. Thamban) Parameter choice by discrepancy principles for ill-posed problems leading to optimal convergence rates. (English summary) 95i:65094
- Gilyazov, S. F. Regularizing methods of conjugate directions. (Russian. Russian summary) 95m:65107
- Gohberg, Israel (with Kaashoek, Marinus A.) Projection method for block Toeplitz operators with operator-valued symbols. (English summary) 95h:47033
- Grever, Wilhelm *see* Engl, Heinz W., 95k:65059
- Heinig, Georg (with Hellinger, Frank) The finite section method for Moore-Penrose inversion of Toeplitz operators. (English summary) 95c:47038
- Hellinger, Frank *see* Heinig, Georg, 95c:47038
- Kaashoek, Marinus A. *see* Gohberg, Israel, 95h:47033
- Kaillath, Thomas *see* Xu, Guanghan, 95c:65064
- Krasnosel'skii, A. M. (with Krasnosel'skii, M. A.; Kuznetsov, N. A.; Eirola, Timo; Nevanlinna, O.) Iterations with incomplete corrections for linear systems with selfadjoint operators. (Russian) 95k:65035
- Krasnosel'skii, M. A. *see* Krasnosel'skii, A. M.; et al., 95k:65035
- Kuznetsov, N. A. *see* Krasnosel'skii, A. M.; et al., 95k:65035
- Liu, Hui *see* Yang, Qing Min, (95c:80001)

Ma, Ji Pu *see* Cao, Wei Ping, 95k:47016

Mair, B. A. Tikhonov regularization for finitely and infinitely smoothing operators. (English summary) 95c:65090

Makarov, Vladimir Leonidovich *see* Gavriluk, I. P., 95b:34096

Manveliani, G. S. *see* Dzishkariani, A. V., 95b:61335

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Paquet, Luc Skeel's condition number for operators in $C^0(\Omega)$ and application to the regularized cogenerator equation of a sub-Markovian resolvent family. 95d:65044

Prössdorf, Siegfried *see* Dahmen, Wolfgang; et al., 95g:65148 and 95g:65149

Schneider, Reinhold *see* Dahmen, Wolfgang; et al., 95g:65148 and 95g:65149

Schröter, Torsten (with Tautenhahn, Ulrich) On the optimality of regularization methods for solving linear ill-posed problems. (English summary) 95k:47017

Solov'ev, S. I. Approximation of symmetric spectral problems with nonlinear appearance of the parameter. (Russian) 95i:47020

Tautenhahn, Ulrich *see* Schröter, Torsten, 95k:47017

Vavilov, S. A. A method of studying the existence of nontrivial solutions to some classes of operator equations with an application to resonance problems in mechanics. 95m:47118

Xu, Guanghan (with Kailath, Thomas) Fast estimation of principal eigenspace using Lanczos algorithm. (English summary) 95c:65064

Yang, Qing Min (with Liu, Hui) A kind of high accuracy algorithm for nonstationary diffuse problem and conditions in judging stability. (English summary) (see 95c:80001)

Zerner, Martin An asymptotically optimal finite element scheme for the arch problem. 95i:65117

65J15 Equations with nonlinear operators (do not use 65Hxx)

Abbaoui, K. (with Cherruault, Yves) New ideas for proving convergence of decomposition methods. (English summary) 95k:65057

Argyros, Ioannis K. (with Szidarovsky, Ferenc) On the convergence of nonstationary Newton methods. (English summary) 95g:65080

— (with Tabatabai, M. A.) Approximating Newton-like iterations in Banach space. (English summary) 95j:65061

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- Cunha, Cristina** (with Viloché, Fermin) An iterative method for the numerical inversion of Laplace transforms. (English summary) **95f:65181**
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- Hansen, Per Christian** The Backus-Gilbert method: SVD analysis and fast implementation. (English summary)
- Hu, Gang** Inverse problem and singularity of integration kernel. (English and Chinese summaries)
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- Baccelli, François (with Balbo, Gianfranco; Boucherie, Richard J.; Campos, Javier; Chiola, G.) Annotated bibliography on stochastic Petri nets. (English summary) (see 95c:68009)
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68-03 Historical (must also be assigned at least one classification number from Section 01)

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68-04 Explicit machine computation and programs (not the theory of computation or programming)

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Designing fair curves and surfaces ★ Designing fair curves and surfaces. 95m:65035

68U07 Computer-aided design

Grabka, Ewa Graphs and designing. (English summary) 95h:68191

Items with secondary classifications in 68U07

Aumann, Günter Canal surfaces versus normal ringed surfaces. 95j:53005

Farouki, Rida T. (with Sakalis, Takis) Pythagorean-hodograph space curves. (English summary) 95b:53003

— (with Neff, C. Andrew) Hermite interpolation by Pythagorean hodograph quintics. (English summary) 95m:65025

Hoffmann, Christoph M. The separation problem of real function partitions and its significance in solid modeling. (English summary) 95d:26041

Liu, Huan Wen The double periodic spline space with degree $k \geq 4$ on type-1 triangulation. (English summary) 95c:65014

Neff, C. Andrew *see* Farouki, Rida T., 95m:65025

Sakalis, Takis *see* Farouki, Rida T., 95b:53003

68U10 Image processing

Aizawa, Kunio (with Nakamura, Akira¹) Path-controlled graph grammars for multiresolution image processing and analysis. (English summary) (see 95c:68005)

Álvarez León, Luis (with Morel, Jean-Michel) Formalization and computational aspects of image analysis. (English summary) 95c:68229

Arkin, Esther M. (with Goodrich, Michael T.; Mitchell, Joseph S. B.; Mount, David M.; Piatko, Christine D.; Skiena, Steven S.) Point probe decision trees for geometric concept classes. (English summary) 95b:68094

Asano, Tetsuo (with Katoh, Naoki) Number theory helps line detection in digital images (extended abstract). (English summary) (see 95b:68004)

Astola, Jaakko *see* Kuosmanen, Pauli, 95c:68233

de Berg, Mark (with Guibas, Leonidas J.; Halperin, Dan; et al.) Reaching a goal with directional uncertainty. (English summary) 95c:68230

Blum, Avrim L. (with Chalasani, Prasad) An on-line algorithm for improving performance in navigation. (English summary) (see 95m:68008)

Brady, Michael *see* Shapiro, Larry S.; et al., 95h:68008

Cohen, J.-M. *see* Płaczynski, W., 95f:68253

Chalasani, Prasad *see* Blum, Avrim L., (95m:68008)

Chanda, Bhabatosh (with Haralick, Robert M.) Studies on properties of digital objects using mathematical morphology. (English summary) 95c:68231

Chao, H. S. *see* Wang, D. P.; et al., 95d:68154

Charif-Chechaoui, Mohammed (with Schonfeld, Dan) Morphological representation of nonlinear filters. (English summary) 95h:68192

Chen, Ling (with Chuang, Henry Y. H.) A fast algorithm for Euclidean distance maps of a 2-D binary image. 95f:68133

Chuang, Henry Y. H. *see* Chen, Ling, 95g:68133

Culik, Karel, II (with Kari, Jarkko) Mechanisms for pattern generation. (English summary) 95j:68162

— (with Kari, Jarkko) On the power of L-systems in image generation. (English summary) 95h:68193

Dorward, Susan E. A survey of object-space hidden surface removal. (English summary)

Dougherty, Edward R. (with Haralick, Robert M.) Unification of nonlinear filtering in the context of binary logical calculus. I. Binary filters. (English summary) 95f:68163a

— Unification of nonlinear filtering in the context of binary logical calculus. II. Gray-scale filters. (English summary) 95f:68163b

— *see also* Kraus, Eugene J.; et al., 95a:68103

Dupuis, Paul (with Oliensis, John) Shape from shading: provably convergent algorithms and uniqueness results. (English summary) 95c:68232

Efrat, Alon (with Gotsman, Craig) Subpixel image registration using circular fiducials. (English summary) 95k:68234

(Fisher, Yuval) *see* Fractal image compression, 95k:68237

Florack, L. M. J. (with ter Haar Romeny, B. M.; Koenderink, J. J.; Viergever, M. A.) General intensity transformations and differential invariants. (English summary) 95d:68151

— (with ter Haar Romeny, B. M.; Koenderink, J. J.; Viergever, M. A.) Linear scale-space. (English summary) 95j:68164

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Gårding, Jonas Shape from texture and contour by weak isotropy. (English summary) 95f:68250

Giblin, Peter J. (with Weiss, Richard S.) Epipolar fields on surfaces. (English summary) 95f:68251

Gong, Wei (with Shi, Qing Yun) Decomposition of morphological structure element in hexagon lattice. (English summary) 95h:68194

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He, Xin¹ (with Kao, Ming-Yang) Parallel construction of canonical ordering and convex drawing of triconnected planar graphs. (see 95b:68004)

Heijmans, Henk J. *see* Kraus, Eugene J.; et al., 95a:68103

Huang, Nen Fu *see* Wang, D. P.; et al., 95d:68154

Huttenlocher, Daniel P. (with Kleinberg, Jon M.) Comparing point sets under projection. (English summary) 95d:68152

Illingworth, J. (with Jones, G.; Kittler, J.; Petrou, M.; Princen, J.) Robust statistical methods of 2D and 3D image description. (English summary) 95j:68139

Ivić, Aleksandar (with Kopolowit, Jack; Žunić, Joviša D.) On the number of digital convex polygons inscribed into an (m, m) -grid. (English summary) 95j:68165

Jones, G. *see* Illingworth, J.; et al., 95f:68139

Kamungo, Tapas (with Haralick, Robert M.) Vector-space solution for a morphological shape-decomposition problem. (English summary) 95j:68166

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Kargashin, A. Yu. (with Kiril'chenko, A. A.; Kugushev, E. I.) Correctness of an estimate for the area of a visible surface of plane objects by means of computer vision systems. (Russian. Russian summary) 95b:68095

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Kraus, Eugene J. (with Heijmans, Henk J.; Dougherty, Edward R.) Spatial-scaling-compatible morphological granulometries on locally convex topological vector spaces. (English summary) 95a:68103

Kugushev, E. I. *see* Kargashin, A. Yu.; et al., 95b:68095

Kuosmanen, Pauli (with Astola, Jaakko) Selection probabilities. (English summary) 95c:68233

Lazzaro, D. Spline-wavelet decomposition for image processing. (Italian. English summary) 95c:68226

Lee, R. C. T. *see* Wang, D. P.; et al., 95d:68154

Lions, Pierre-Louis Axiomatic derivation of image processing models. (English summary) 95h:68195

Luo, Li Min (with Gu, Zhao Ming) A method for interpolation of extremely concave surfaces in reconstruction of medical images. (Chinese. English summary) 95c:68227

Luong, Q.-T. (with Viéville, T.) Canonic representations for the geometries of multiple projective views. (English summary) 95f:68252

Lutsyk, A. Yu. *see* Palenichka, R. M.

Maaß, Peter (with Stark, Hans-Georg) Wavelets and digital image processing. (English summary) 95h:68196

Marroquin, José Luis The use of models of Markov random fields in computer vision. (Spanish. Spanish summary) 95j:68167

Mattioli, Juliette Differential inclusions for mathematical morphology. (English summary) 95g:68134

— *see also* Schmitt, Michel, 95m:68180

Meloche, J. (with Zamar, R. H.) Binary image restoration. (English and French summaries) 95h:68197

Mitchell, Joseph S. B. *see* Arkin, Esther M.; et al., 95b:68094

Moons, Theo *see* Van Diest, Marc; et al., 95c:68228

Morel, Jean-Michel *see* Álvarez León, Luis, 95c:68229

Mount, David M. *see* Arkin, Esther M.; et al., 95b:68094

Nacken, P. F. M. Chamfer metrics in mathematical morphology. (English summary) 95d:68153

Nakamura, Akira¹ *see* Aizawa, Kunio, (95c:68005)

Nevatia, Ramakant *see* Ulupinar, Fatih, 95f:68256

Oliensis, John *see* Dupuis, Paul, 95c:68232

Palenichka, R. M. (with Lutsyk, A. Yu.) Fast algorithms for local image processing based on recursive computations. (Russian. English and Ukrainian summaries)

Parodi, Pietro (with Torre, Vincent) On the complexity of labeling perspective projections of polyhedral scenes. (English summary) 95h:68198

Pauwels, Eric *see* Van Diest, Marc; et al., 95c:68228

Perona, Pietro *see* Soatto, Stefano; et al., 95f:68255

Peruggia, Mario ★ Discrete iterated function systems. (English summary) 95a:68104

Petrou, M. *see* Illingworth, J.; et al., 95f:68139

- Piatko, Christine D. *see* Arkin, Esther M.; et al., 95b:68094
- Pieczynski, W. (with Cahen, J.-M.) Champs de Markov cachés flous et segmentation d'images. (English and French summaries) [Fuzzy hidden Markov chains and image segmentation] 95f:68253
- Pitas, Ioannis ★ Digital image processing algorithms. (English summary) 95c:68234
- Princen, J. *see* Illingworth, J.; et al., 95i:68139
- Pyeron, Michael (with Tretiak, Oleh) Image cellular complexes, morphological operators and skeletonization. (English summary) 95c:68235
- Roerdink, J. B. T. M. FFT-based methods for nonlinear image restoration in confocal microscopy. (English summary)
- Rohr, Karl Localization properties of direct corner detectors. (English summary)
- Ronse, Christian Lattice-theoretical fixpoint theorems in morphological image filtering. (English summary) 95k:68235
- Salember, P. *see* Serra, Jean C., 95g:68135
- Saoudi, A. *see* Senoussi, H.
- Sapiro, Guillermo (with Tannenbaum, Allen R.) Area and length preserving geometric invariant scale-spaces. (English summary) 95c:68236
- Schmitt, Michel (with Mattioli, Juliette) ★ Morphologie mathématique. (French. French summary) [Mathematical morphology] 95m:68180
- Schnörr, Christoph Unique reconstruction of piecewise-smooth images by minimizing strictly convex nonquadratic functionals. (English summary) 95c:68237
- Schonfeld, Dan *see* Charif-Chetoui, Mohammed, 95b:68192
- Senoussi, H. (with Saoudi, A.) A quadtree algorithm for template matching on a pyramid computer. (English summary)
- Serra, Jean C. Equicontinuous functions: a model for mathematical morphology. (English summary) 95a:68105
- Skeleton decompositions. 95b:68096
- Anamorphoses and function lattices. (English summary) 95c:68238
- (with Salember, P.) Connected operators and pyramids. (English summary) 95g:68135
- Shapiro, Larry S. (with Zisserman, Andrew; Brady, Michael) Motion from point matches using affine epipolar geometry. (English summary) (see 95b:68008)
- Shashua, Amnon (with Toelg, Sebastian) The quadric reference surface: applications in registering views of complex 3D objects. (English summary) 95c:68239
- Trilinearity in visual recognition by alignment. (English summary) 95f:68254
- Shi, Qing Yun *see* Gong, Wei, 95b:68194
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- Soatto, Stefano (with Frezza, Ruggero; Perona, Pietro) Motion estimation on the essential manifold. (English summary) 95f:68255
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- Torre, Vincent *see* Parodi, Pietro, 95b:68198
- Tretiak, Oleh *see* Pyeron, Michael, 95c:68235
- Ulupinar, Fatih (with Nevatia, Ramakant) Recovery of 3-D objects with multiple curved surfaces from 2-D contours. (English summary) 95f:68256
- Van Diest, Marc (with Van Gool, Luc; Moons, Theo; Pauwels, Eric) Projective invariants for planar contour recognition. (English summary) 95c:68228
- Van Gool, Luc *see* Van Diest, Marc; et al., 95c:68228
- Veelaert, Peter Linear-time recognition of digital polynomial curves and surfaces that have periodic differences. (English summary) (see 95c:68017)
- Viergever, M. A. *see* Florack, L. M. J.; et al., 95d:68151 and 95j:68164
- Vieville, T. *see* Luong, Q.-T., 95f:68252
- Voss, Klaus Incidence structures and n -dimensional digital objects. 95j:68168
- Wang, D. P. (with Huang, Nen Fu; Chao, H. S.; Lee, R. C. T.) Plane sweep algorithms for the polygonal approximation problems with applications. (English summary) 95d:68154
- Weinshall, Daphna Local shape approximation from shading. (English summary)
- Weiss, Richard S. *see* Giblin, Peter J., 95f:68251
- Wilson, Stephen S. Gray level noise filtering with vector openings. (English summary) 95c:68240
- Winkler, Gerhard ★ Image analysis, random fields and dynamic Monte Carlo methods. (English summary) 95k:68236
- Zamar, R. H. *see* Meloche, J., 95b:68197
- Zhuang, Xin Hua Decomposition of morphological structuring elements. (English summary) 95m:68181
- Zisserman, Andrew *see* Shapiro, Larry S.; et al., (95b:68008)
- Žunić, Joviša D. *see* Ivić, Aleksandar; et al., 95j:68165
- Items listed otherwise than by author
- Fractal image compression ★ Fractal image compression. 95k:68237
- Items with secondary classifications in 68U10
- Acketa, Dragan M. (with Žunić, Joviša D.) A simple construction of a digital convex n -gon with almost minimal diameter. (English summary) 95d:52015
- Baras, John S. *see* Berman, Zeev, 95c:94001
- Bellettini, Giovanni (with Coscia, Alessandra) Discrete approximation of a free discontinuity problem. (English summary) 95c:49016
- Berman, Zeev (with Baras, John S.) An analysis of discrete zero-crossings and maxima wavelet representations. (English summary) 95c:94001
- Biswas, Sambhunath (with Pal, Sankar K.) Image coding using modified Bézier-Bernstein approximation. (English summary) 95k:68226
- Bondarenko, V. A. (with Dol'nikov, V. L.) Fractal image compression in the Barnsley-Sloan sense. (Russian. Russian summary)
- Brüggemann-Klein, Anne (with Fischer, Petra; Ottmann, Thomas) Learning picture sets from examples. (see 95c:68012)
- Buchanan, Thomas Critical sets for 3D reconstruction using lines. (English summary) 95a:51039
- Buckley, Michael James Fast computation of a discretized thin-plate smoothing spline for image data. (English summary) 95c:65014
- Byrnes, J. S. Quadrature mirror filters, low crest factor arrays, functions achieving optimal uncertainty principle bounds, and complete orthonormal sequences—a unified approach. (English summary) 95i:94004
- Carasso, Alfred S. Overcoming Hölder continuity in ill-posed continuation problems. (English summary) 95i:65126
- Chabrowski, J. (with Zhang, Ke Wei) On shape from shading problem. 95m:35199
- Chen, Chuan Bo (with Ouyang, Xin Ming) Operations on two-dimensional and three-dimensional linear binary trees. (Chinese. English and Chinese summaries)
- Coscia, Alessandra *see* Bellettini, Giovanni, 95c:49016
- Cressie, Noel *see* Helterbrand, Jeffrey D.; et al., 95m:60079
- Davidson, Jennifer L. *see* Helterbrand, Jeffrey D.; et al., 95m:60079
- Dibos, Françoise Uniform rectifiability of image segmentations obtained by a variational method. (English summary) 95g:49081
- Dol'nikov, V. L. *see* Bondarenko, V. A.
- (Dougherty, Edward R.) *see* Image algebra and morphological image processing, 95b:68013
- Dupuis, Paul (with Oliensis, John) An optimal control formulation and related numerical methods for a problem in shape reconstruction. (English summary) 95g:49068
- (Eklundh, Jan-Olof) *see* Computer vision—ECCV '94, 95b:68007 and 95b:68008
- Ferraro, Mario Local geometry of surfaces from shading analysis. (English summary) 95d:53002
- Fischer, Petra *see* Brüggemann-Klein, Anne; et al., (95c:68012)
- (Gader, Paul D.) *see* Image algebra and morphological image processing, 95b:68013
- Gorshkov, A. S. On the method of the number-theoretic Mersenne transform. (Russian) 95i:11003
- Goutsis, John Morphological analysis of discrete random shapes. (English summary) 95j:60022
- Binary random fields, random set theory, and the morphological analysis of shape. (English summary) 95c:60017
- Goutte, R. *see* Peyrin, F.; et al.
- Helterbrand, Jeffrey D. (with Cressie, Noel; Davidson, Jennifer L.) A statistical approach to identifying closed object boundaries in images. (English summary) 95m:60079
- Huang, Ch'i Jui (with Hwang-Ma, Shu-Yin; Sheu, Shuenn Jyi) Accelerating Gaussian diffusions. (English summary) 95c:60071
- Hwang-Ma, Shu-Yin *see* Huang, Ch'i Jui; et al., 95c:60071
- Koepller, G. (with Lopez, C.; Morel, Jean-Michel) A multiscale algorithm for image segmentation by variational method. (English summary) 95a:68029
- Korostel'ev, A. P. (with Tsybakov, A. B.) ★ Minimax theory of image reconstruction. 95a:62028
- Landau, G. M. (with Vishkin, Uzi) Pattern matching in a digitized image. (English summary) 95c:68189
- Li, Zi Cai Advanced splitting-integrating methods with high convergence rates for restoring images and patterns. (English summary)
- van Lieshout, M. N. M. Stochastic annealing for nearest-neighbour point processes with application to object recognition. (English summary) 95c:62093
- Lopez, C. *see* Koepller, G.; et al., 95a:68029
- Luesink, Rob On the likelihood ratio for two-parameter discrete space stochastic processes. (English summary) 95a:60069
- Manseur, Zohra Z. (with Wilson, David Clifford) Invertibility of a special class of mean filter operators. (English summary) 95f:94004
- Meyer, Yves ★ Wavelets. 95f:94005
- Morel, Jean-Michel *see* Koepller, G.; et al., 95a:68029
- Mumford, David Elastica and computer vision. 95a:92026
- Murtagh, Fionn D. Contiguity-constrained hierarchical clustering. (English summary) (see 95k:00025)
- Oliensis, John *see* Dupuis, Paul, 95g:49068
- Ottmann, Thomas *see* Brüggemann-Klein, Anne; et al., (95c:68012)
- Ouyang, Xin Ming *see* Chen, Chuan Bo
- Pal, Sankar K. *see* Biswas, Sambhunath, 95k:68226
- Peyrin, F. (with Zaim, M.; Goutte, R.) Construction of wavelet decompositions for tomographic images. (English summary)
- Reif, John H. (with Tygar, J. D.; Yoshida, A.) Computability and complexity of ray tracing. (English summary) 95c:68111
- Ritter, Gerhard X. *see* Zhu, Huixia, 95j:94008
- Rival, Ivan Problems about planar orders. (English summary) 95a:68025
- Ronse, Christian Toggles of openings, and a new family of idempotent operators on partially ordered sets. (English summary) 95m:06006
- (Ryan, Robert D.) *see* Meyer, Yves, 95f:94005
- (Serra, Jean C.) *see* Image algebra and morphological image processing, 95b:68013
- Sheu, Shuenn Jyi *see* Huang, Ch'i Jui; et al., 95c:60071
- Smeulders, Arnold W. M. *see* Worring, Marcel, 95b:68093
- Tsybakov, A. B. *see* Korostel'ev, A. P., 95a:62028
- Tygar, J. D. *see* Reif, John H.; et al., 95c:68111
- Vishkin, Uzi *see* Landau, G. M., 95c:68189
- Wickerhauser, Mladen Victor Comparison of picture compression methods: wavelet, wavelet packet, and local cosine transform coding. (English summary) 95j:94010
- Wilson, David Clifford *see* Manseur, Zohra Z., 95f:94004
- Worring, Marcel (with Smeulders, Arnold W. M.) Shape of an arbitrary finite point set in R^2 . (English summary) 95b:68093
- Yoshida, A. *see* Reif, John H.; et al., 95c:68111
- Zaim, M. *see* Peyrin, F.; et al.
- Zhang, Ke Wei *see* Chabrowski, J., 95m:35199
- Zhu, Huixia (with Ritter, Gerhard X.) The generalized matrix product and the wavelet transform. (English summary) 95j:94008
- Žunić, Joviša D. *see* Acketa, Dragan M., 95d:52015
- Items listed otherwise than by author
- Computer vision—ECCV '94 ★ Computer vision—ECCV '94. Vol. I. 95b:68007
- ★ Computer vision—ECCV '94. Vol. II. 95b:68008
- Conference:
- Computer Vision ★ Computer vision—ECCV '94. Vol. I. 95b:68007
- ★ Computer vision—ECCV '94. Vol. II. 95b:68008

Conference: (cont'd.)

- Image Algebra and Morphological Image Processing** ★ Image algebra and morphological image processing. IV. 95b:68013
- Image algebra and morphological image processing** ★ Image algebra and morphological image processing. IV. 95b:68013
- Lecture Notes in Computer Science** ★ Computer vision—ECCV '94. Vol. I. 95b:68007
- ★ Computer vision—ECCV '94. Vol. II. 95b:68008
- San Diego, CA** ★ Image algebra and morphological image processing. IV. 95b:68013
- Stockholm** ★ Computer vision—ECCV '94. Vol. I. 95b:68007
- ★ Computer vision—ECCV '94. Vol. II. 95b:68008

68U20 Simulation [see also 65Cxx]

Burns, Anne M. Convolutions and computer graphics.

Items with secondary classifications in 68U20

- Cellier, François E. ★ Continuous system modeling. (English summary) 95e:93001
- Chapman, Michael J. (with Godfrey, Keith R.; Vajda, Sándor) Indistinguishability for a class of nonlinear compartmental models. (English summary) 95e:92002
- Godfrey, Keith R. see Chapman, Michael J.; et al., 95e:92002
- Halton, John H. Sequential Monte Carlo techniques for the solution of linear systems. (English summary) 95j:65004
- Strömberg, Jan-Olov Wavelet transforms with the Franklin system and application in image processing. (English summary) 95e:94004
- Vajda, Sándor see Chapman, Michael J.; et al., 95e:92002

68U30 Other applications

Items with secondary classifications in 68U30

- Chambolle, Antonin A uniqueness result in the theory of stereo vision: coupling shape from shading and binocular information allows unambiguous depth reconstruction. (English and French summaries) 95b:92023

70-XX Mechanics of particles and systems {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82-XX.}

70-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Corben, H. C. (with Stehle, Philip) ★ Classical mechanics. (English summary) 95f:70001
- Rand, Richard H. ★ Topics in nonlinear dynamics with computer algebra. (English summary) 95d:70001
- Rimrott, F. P. J. see Tabarrok, B., 95i:70001
- Scheck, Florian ★ Mechanics. (English summary) 95j:70001
- Stehle, Philip see Corben, H. C., 95f:70001
- Tabarrok, B. (with Rimrott, F. P. J.) ★ Variational methods and complementary formulations in dynamics. (English summary) 95i:70001

Items with secondary classifications in 70-01

- Fowkes, Neville D. (with Mahony, John J.) ★ An introduction to mathematical modelling. (English summary) 95g:00014
- Honerkamp, Josef (with Römer, Hartmann) ★ Theoretical physics. (English summary) 95m:00008
- Levi, Mark A. "bicycle wheel" proof of the Gauss-Bonnet theorem. (English summary) 95j:53007
- Mahony, John J. see Fowkes, Neville D., 95g:00014
- Marsden, Jerrold E. (with Ratiu, Tudor S.) ★ Introduction to mechanics and symmetry. (English summary) 95i:58073
- Oliver, David ★ The shaggy steed of physics. (English summary) 95d:00013
- Pollack, H. see Honerkamp, Josef, 95m:00008
- Ratiu, Tudor S. see Marsden, Jerrold E., 95i:58073
- Römer, Hartmann see Honerkamp, Josef, 95m:00008

70-02 Research exposition (monographs, survey articles)

Items with secondary classifications in 70-02

- Li, Ze Xiang see Murray, Richard M.; et al., 95k:70010
- Murray, Richard M. (with Li, Ze Xiang; Sastry, S. Shankar) ★ A mathematical introduction to robotic manipulation. 95k:70010
- Sastry, S. Shankar see Murray, Richard M.; et al., 95k:70010

70-03 Historical (must also be assigned at least one classification number from Section 01)

- Barroso Filho, Wilton ★ La mécanique de Lagrange. (French. French summary) [The mechanics of Lagrange] 95h:70001
- Benvenuto, Edoardo Genesis and development of the concept of mechanical resistance of solids. (Italian)
- Galletto, D. The genesis of *Mécanique analytique*. (Italian) 95f:70002
- (Lagrange, Joseph Louis) see Barroso Filho, Wilton, 95h:70001

Items with secondary classifications in 70-03

- Andersson, K. G. Poincaré's discovery of homoclinic points. 95m:01012
- Barrow-Green, June Oscar II's prize competition and the error in Poincaré's memoir on the three body problem. 95m:01011
- (Bogolyubov, N. N.) see Samoilenko, A. M., 95k:34003
- (Chaplygin, S. A.) see Lishevskii, V. P.
- Colwell, Peter ★ Solving Kepler's equation over three centuries. (English summary) 95h:01002
- Erichson, Herman The visualization of quadratures in the mystery of Corollary 3 to Proposition 41 of Newton's *Principia*. (English, French and German summaries) 95f:01012
- Fuller, A. T. Maxwell's treatment of Siemens's hydraulic governor. (English summary) 95g:93002
- Giuntini, Sandra Jacopo Riccati and the inverse problem of central forces. (Italian) (see 95b:01006)
- Goldstein, Bernard R. Historical perspectives on Copernicus's account of precession. 95g:01010
- Ishigaki, Toshio Newton's *Principia* from a logical point of view. 95g:01012
- Kirchgraber, U. Hundert Jahre Störungstheorie—Differentialgleichungen von Poincaré bis Nekhoroshev. [One-hundred years of perturbation theory—differential equations from Poincaré to Nekhoroshev] 95j:01024
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- Gao, Xiao Shan see Chou, Shang-Ching, 95a:03020 and 95a:03021
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- Sousa Dias, E. A geometric Hamiltonian approach to the affine rigid body. (English summary) 95i:58077
- Strelcyn, Jean-Marie *see* Maciejewski, Andrzej J., 95m:65142
- Tarnow, N. (with Simo, Juan Carlos) How to render second order accurate time-stepping algorithms fourth order accurate while retaining the stability and conservation properties. (English summary) 95c:73089
- Thái, V. N. On the stability of symmetric equilibrium positions of a reversible system. (Russian. Russian summary) 95f:34072
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- Toth, John A. On a class of spherical harmonics associated with rigid body motion. 95c:58106
- Tsiotras, Panagiotis (with Longuski, James M.) Spin-axis stabilization of symmetric spacecraft with two control torques. (English summary)
- Vorotnikov, V. I. On the control of the angular motion of a rigid body under noise. A game-theoretic approach. (Russian. Russian summary) 95g:49037

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- Affifi, Hazem A. *see* Nikravesh, Parviz E., 95h:70016
- Belczynski, M. J. *see* Wehage, R. A., 95h:70017
- Bogatyrev, S. V. Slow motions in problems of the dynamics of a rigid body with a cavity filled with viscous fluid. (Russian. Russian summary) 95i:70009
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- Lilov, Lyubomir ★ Моделирование систем связанных тел. (Russian. Russian summary) [Modeling of systems of coupled bodies] 95e:70003
- Nikravesh, Parviz E. (with Affifi, Hazem A.) Construction of the equations of motion for multibody dynamics using point and joint coordinates. (English summary) 95h:70016
- Suzuki, Shinji² (with Kojima, Hirohisa) Order- n formulation of rigid multibody dynamics with intermittent motion. (English summary) 95j:70007
- Wehage, R. A. (with Belczynski, M. J.) Constrained multibody dynamics. (English summary) 95h:70017
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- Angeles, Jorge On twist and wrench generators and annihilators. (English summary) 95i:70002
- Avello, A. *see* García de Jalón, J.; et al., 95h:70003
- Beletskii, V. V. (with Grushevskii, A. V.) Evolution of the rotations of a satellite under dissipative aerodynamic torque. (Russian. Russian summary) 95c:70037
- Cardona, A. (with Gêradin, M.) Numerical integration of second order differential-algebraic systems in flexible mechanism dynamics. (English summary) 95h:73071
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- Chobanov, Ivan (with Deneva, Sonya) Some new static and dynamical "paradoxes". (English and Russian summaries) 95d:70011
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70Fxx Dynamics of a system of particles, including celestial mechanics

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- Arnol'd, V. I. (with Kozlov, Valerii V.; Neishtadt, A. I.) Mathematical aspects of classical and celestial mechanics. 95d:58043b
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- Álvarez López, Jorge (with Floria Gimeno, Luis) On certain partial derivatives involved in a Delaunay normalization process. (English summary) 95j:70008
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 — A canonical reduction of a class of perturbed two-body problems. (English summary) 95k:70017
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70F07 Three-body problem

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- Ahmad, Abdul (with Islam, Nazrul) Effect of perturbed potentials on triangular solutions at critical mass. (English summary)
- Stability of the periodic solutions of the restricted three-body problem representing analytic continuations of Keplerian rectilinear periodic motions. (English summary) **95k:70019**
- Anikovskii, V. V. (with Dzhunusbekov, D. S.) On the nondegeneracy of stationary solutions in the generalized satellite version of the restricted three body problem. (Russian) **95a:70007**
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- Beaugé, C. Asymmetric librations in exterior resonances. (English summary) **95j:70010**
- Bhardwaj, Rashmi *see* Bhatnagar, K. B.; et al., 95e:70004
- Bhatnagar, K. B. (with Gupta, Usha; Bhardwaj, Rashmi) Effect of perturbed potentials on the non-linear stability of libration point L_4 in the restricted problem. (English summary) **95e:70004**
- Bryuno, A. D. ★ The restricted 3-body problem: plane periodic orbits. **95g:70007**
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- (Érdi, Bálint) *see* Bryuno, A. D., 95g:70007
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- Gupta, Usha *see* Bhatnagar, K. B.; et al., 95e:70004
- Hassan, M. R. A generating solution of the small eccentric restricted three-body problem in K-S-variables. (English summary)
- Hietarinta, Jarmo (with Mikkola, Seppo) Chaos in the one-dimensional gravitational three-body problem. (English summary) **95c:70006**
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- Llibre, Jaume (with Soler, Jaume) An analytic estimation for the instability interval near second order resonances in the restricted three-body problem. (English summary) **95j:70011**
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- Martínez, Regina (with Simó, Carles) A note on the existence of heteroclinic orbits in the planar three-body problem. (English summary) **95d:70009**
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- Qin, Yi Ping *see* Zheng, Xue Tang; et al., 95g:70008
- Schmidt, Dieter S. Versal normal form of the Hamiltonian function of the restricted problem of three bodies near \mathcal{L}_4 . (English summary) **95k:70020**
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- Tuckness, D. G. Position and velocity sensitivities at the triangular libration points. (English summary) **95k:70022**
- Wodnar, Karl The original Sitnikov article—new insights. (English summary) **95c:70008**
- Yu, Li Zhong *see* Zheng, Xue Tang; et al., 95g:70008
- Zheng, Xue Tang (with Yu, Li Zhong; Qin, Yi Ping) The libration points in photogravitational restricted three-body problem. (Chinese. English and Chinese summaries) **95g:70008**

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- Bozis, George (with Érdi, Bálint) An equation for the characteristic curve of a family of symmetric periodic orbits. (English summary) **95e:70001**
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- Érdi, Bálint *see* Bozis, George, 95e:70001
- Ivanov, A. P. The effect of small resistance forces on relative equilibrium. (Russian. Russian summary) **95i:70026**
- Jorba, Àngel (with Simó, Carles) Effective stability for periodically perturbed Hamiltonian systems. (English summary) **95j:70018**
- Morozov, V. M. *see* Mozheiko, I. A.
- Mozheiko, I. A. (with Morozov, V. M.) Stabilization of a spacecraft in a neighborhood of a collinear libration point in the circular three-body problem. (Russian. Russian summary)
- Santini, Paolo Maria Stability problems in space flight mechanics. (English summary) **95j:70029**
- Simó, Carles *see* Jorba, Àngel, 95j:70018
- Sun, Yi Sui (with Zhou, Ji Lin; Zhang, Tian Ling; Cheng, Chong Qing) Forced secondary resonances at the 3:1 commensurability. (English summary) **95e:70006**
- Zhang, Tian Ling *see* Sun, Yi Sui; et al., 95e:70006
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- Albouy, Alain Symétrie des configurations centrales de quatre corps. (English and French summaries) [Symmetry of central configurations of four bodies] **95k:70023**

- Babadzhanyants, L. K. On the global solution of the N -body problem. (English summary) **95c:70009**
- Calogero, F. Remarks on certain integrable one-dimensional many-body problems. (English summary) **95f:70012**
- Casasayas, Josefine (with Llibre, Jaume; Nunes, Ana) Central configurations of the planar $1 + n$ body problem. (English summary) **95j:70012**
- Diacu, Florin N. *see* Saari, Donald G., 95k:70027
- Eilbaly, Mohamed Sami On simultaneous binary collisions in the planar n -body problem. (English summary) **95c:70010**
- Elmabout, Badaoui Stability of some degenerate positions of relative equilibrium in the n -body problem. (English summary) **95k:70024**
- Gurevich, B. M. Asymptotically additive integrals of motion for particles with nonpairwise interaction in dimension one. **95g:70009**
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- Gurzadyan, V. G. (with Kocharyan, A. A.) Instability of N -body systems: can computers solve the problem? (English summary) **95c:70011**
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- Meyer, Kenneth R. Comet like periodic orbits in the N -body problem. (English summary) **95k:70026**
- Minglbaev, M. D. A problem on the translational-rotational motion of n mutually gravitating bodies of constant shape with variable dimensions and mass. (Russian) **95b:70003**
- Moekkel, Richard Linear stability of relative equilibria with a dominant mass. (English summary) **95c:70012**
- Muzzio, J. C. *see* Plastino, A. R., 95c:70013
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- Plastino, A. R. (with Muzzio, J. C.) Boltzmann equation approach to the N -body problem with masses varying according to the Eddington-Jeans law. (English summary) **95c:70013**
- Radkevich, O. V. *see* Gurevich, B. M., 95g:70025
- Saari, Donald G. (with Diacu, Florin N.) Superhyperbolic expansion, noncollision singularities and symmetry configurations. (English summary) **95k:70027**
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- Sun, Jia Zhong (with Li, Ze Sheng) On the reaction path Hamiltonian. (English summary) **95h:70022**
- Szydlowski, Marek Curvature of gravitationally bound mechanical systems. (English summary) **95f:70013**
- Xia, Zhihong *see* Saari, Donald G., 95m:70002
- Yang, Shi Guo A result about a system of particles on a hypersphere and its applications. (Chinese. English and Chinese summaries) **95k:70028**

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- Aarseth, Sverre J. Direct methods for N -body simulations. (English summary) (see 95c:85001)
- Albouy, Alain Integral manifolds of the n -body problem. **95c:58066**
- Ambrosetti, Antonio (with Tanaka, Kazunaga; Vitillaro, Enzo) Periodic solutions with prescribed energy for some Keplerian N -body problems. (English and French summaries) **95m:58024**
- Delgado Fernández, Joaquín (with Lacomba, E. A.; Llibre, Jaume; Pérez-Chavela, Ernesto) Poincaré compactification of the Kepler and the collinear three body problems. **95c:70005**
- Eilbeck, J. C. (with Énoľ'skii, V. Z.; Kuznetsov, V. B.; Leykin, D. V.) Classical Poisson structure for a hierarchy of one-dimensional particle systems separable in parabolic coordinates. (English summary) **95i:58087**
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- Greenspan, Donald Completely conservative, covariant numerical methodology. (English summary) **95k:70003**
- Havas, Peter Laws and exact solutions in classical special relativistic dynamics of n -particle systems. (English and Spanish summaries) **95j:70021**
- Kuznetsov, V. B. *see* Eilbeck, J. C.; et al., 95i:58087
- Lacomba, E. A. *see* Delgado Fernández, Joaquín; et al., 95c:70005
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- Majer, Pietro (with Terracini, Susanna) Periodic solutions to some problems of n -body type. (English summary) **95b:58124**
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- Rañada, Manuel F. An integrable three-particle system. (English summary) **95c:58102**
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70F15 Celestial mechanics

- Bekov, A. A. Exact solutions and intermediate motion in the Gylden-Meshcherskii problem. (Russian) (see 95a:00016)
- Blaga, Cristina *see* Mioc, Vasile; et al.
- Brumberg, V. A. General planetary theory in elliptic functions. (English summary) **95c:70005**
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70Gxx General representations of dynamical systems [see also 58Fxx]

- Niu, Yan Zhou** (with Zhang, Shui Wen) A piecewise mixed variational principle and a generalized variational principle in dynamics. (Chinese. English and Chinese summaries)
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70G05 Riemannian geometry, tensorial methods [see also 53A45, 53A50, 53B20]

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- Benenti, Sergio** Orthogonal separation of variables on manifolds with constant curvature. (English summary) **95f:53040**
- Brzezinski, Tomasz** Dynamical r -matrices and separation of variables: the generalised Calogero-Moser model. (English summary) **95j:58064**
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- Hall, G. S.** (with Haddow, Barry M.) Holonomy in classical Newton-Cartan mechanics. (English summary) **95k:53081**
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- Kim, Myung Ho** see **Oh, Phillal**, **95k:58077**

- Lilov, Lyubomir** see **Vasileva, Nikolina**, **95d:70007**

- Oh, Phillal** (with Kim, Myung Ho) Action angle variables for complex projective space and semiclassical exactness. (English summary) **95k:58077**

- Rimrott, F. P. J.** see **Tabarrok, B.**, **95i:70001**

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70G25 Configuration space

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- Li, Ze Sheng** see **Sun, Jia Zhong**, **95h:70022**
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70G30 State space

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70G35 Phase space

- Gallavotti, Giovanni** Drift and diffusion in phase space. An application to celestial mechanics. (English summary) **95c:70021**

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- Delgado Fernández, Joaquín** (with Lacomba, E. A.; Llibre, Jaume; Pérez-Chavela, Ernesto) Poincaré compactification of the Kepler and the collinear three body problems. **95c:70005**
- Krupková, Olga** A geometric setting for higher-order Dirac-Bergmann theory of constraints. (English summary) **95m:58060**
- Lacomba, E. A.** see **Delgado Fernández, Joaquín**, et al., **95c:70005**
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- Nzotungicimpaye, Joachim** Jerk by group theoretical methods. (English summary) **95m:22013**
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- Sudarshan, E. C. G.** Scattering theory for the quantum envelope of a classical system. (English summary) **95c:81242**

70G50 Classical field theories (general)

- Li, Shu Min** (with Wang, Bin; Miao, Yan Gang; Zhu, Dong Pei) A new description of field: the pseudo-Hamiltonian description. (English summary) **95i:70015**
- Miao, Yan Gang** see **Li, Shu Min**, et al., **95i:70015**
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- Kobayashi, Masanori** Each other's complementary massless theory for totally antisymmetric tensor gauge fields. (English summary) **95c:81069**
- Li, Zi Ping** Generalized Noether theorem and Poincaré-Cartan integral invariant for singular high-order Lagrangian in field theories. (English summary) **95j:58040**
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70Hxx Hamiltonian and Lagrangian mechanics [see also 58F05]

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70H05 Hamilton's equations

- Abdullaev, S. S. Two-dimensional model of a kicked oscillator: motion with intermittency. (English summary) **95h:70025**
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70Jxx Linear vibration theory [see also 73D30]

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- Arnol'd, V. I.** (with Kozlov, Valerii V.; Neishtadt, A. I.) Mathematical aspects of classical and celestial mechanics. 95d:58043b
- *see also* Dynamical systems, 95d:58043a
- (Jacob, A.)** *see* Dynamical systems, 95d:58043a
- Kozlov, Valerii V.** *see* Arnol'd, V. I.; et al., 95d:58043b
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- Dynamical systems** ★ Dynamical systems. III. 95d:58043a
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70J05 Finite degree of freedom systems

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- Seiranyan, A. P.** Collisions of eigenvalues in linear oscillatory systems. (Russian. Russian summary) 95i:70024

70J10 Modal analysis

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- Lee, Wei** *see* Wei, Li-Ding, 95c:70030
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- Lee, George C.** *see* Tong, M.; et al., 95c:70031
- Liang, Zhong** *see* Tong, M.; et al., 95c:70031
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70Kxx Nonlinear motions [see also 34Cxx, 58Fxx, 73D35, 73K12]

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70K05 Phase plane analysis

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- Abdullaev, S. S. Two-dimensional model of a kicked oscillator: motion with intermittency. (English summary) 95h:70025
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70K10 Limit cycles

- Khrebet, V. G. see Lobas, Leonid Grigorovich
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70K15 Lyapunov theorems

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- Gurzadyan, V. G. (with Kocharyan, A. A.) Instability of N -body systems: can computers solve the problem? (English summary) 95e:70011
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70K20 Stability

- Bulatović, Ranišlav (with Kažić, Mila) Asymptotic solutions of equations of motion of nonholonomic Chaplygin systems. (Russian. Russian summary) 95e:70009
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Nonlinearity and Chaos in Engineering Dynamics ★ Nonlinearity and chaos in engineering dynamics. 95f:58003

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70K99 None of the above, but in this section

- Ali, M. K. (with Kipp, S. S.) Birkhoff-Gustavson normal form and the semiclassical energies of a double pendulum. (English summary) 95d:70021
- Alvarez-Ramirez, Martha Symmetric periodic orbits in the spring pendulum. (Spanish. Spanish summary) 95i:70030
- Bliman, Pierre-Alexandre ★ Étude mathématique d'un modèle de frottement sec: le modèle de P. R. Dahl. (French. English and French summaries) [Mathematical study of a model of dry friction: the model of P. R. Dahl] 95g:70026
- Curnier, Alain see Zuo, L., 95c:70036
- Denman, Harry H. Approximate invariants and Lagrangians for autonomous, weakly nonlinear systems. (English summary) 95b:70010
- Kipp, S. S. see Ali, M. K., 95d:70021
- Klepp, Horst J. The existence and uniqueness of solutions for the pendulum with friction. Levitas, J. (with Weller, T.; Singer, Josef) Poincaré-like simple cell mapping for non-linear dynamical systems. (English summary) 95j:70028
- Singer, Josef see Levitas, J.; et al., 95j:70028
- Weller, T. see Levitas, J.; et al., 95j:70028
- Zuo, L. (with Curnier, Alain) Non-linear real and complex modes of conewise linear systems. (English summary) 95c:70036

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- Addo-Asah, W. (with Akpati, H. C.; Mickens, Ronald E.) Investigation of a generalized van der Pol oscillator differential equation.
- Akpati, H. C. see Addo-Asah, W.; et al.
- Barbone, Paul E. Stability of harmonic waves in a periodic system and the radiation condition.
- Bolotin, N. N. Inertial motion of an absolutely rigid body on a hinge with two degrees of freedom. (Russian. Russian summary) 95i:70006
- Capodanno, Pierre Sur les petites oscillations d'un pendule élastique. (English summary) [Small oscillations of an elastic pendulum] 95c:73056
- Cheung, Y. K. see Xu, Zhao, 95c:34082
- Chui, S. K. see Leung, A. Y. T., 95f:70005
- Chung, Gary Minimum time null controllability of Duffing oscillator. (see 95f:00022)
- Common, A. K. Singularity confinement in the discrete time Toda lattice and the Q-D algorithm. (English summary) 95d:39006
- Coppola, Vincent T. (with Miller, Bruce R.) Synchronization of perturbed non-linear Hamiltonian oscillators. (English summary) 95k:70034
- Cveticanin, L. Adiabatic invariants of dynamical systems with two degrees of freedom. (English summary) 95k:34068
- Dinevski, D. see Kuhn, A.; et al., 95f:73059
- Doerner, R. (with Hübinger, B.; Heng, H.; Martienssen, W.) Approaching nonlinear dynamics by studying the motion of a pendulum. II. Analyzing chaotic motion. (English summary)
- see also Heng, H.; et al. and Hübinger, B.; et al.
- Duncan, Dugald B. (with Wattis, Jonathan A. D.) Approximations of solitary waves on lattices using weak and variational formulations. (English summary) 95k:35174a
- Govinder, K. S. (with Leach, P. G. L.) Integrability of generalized Ermakov systems. (English summary) 95c:34014
- Grzędziński, J. Flutter analysis of a two-dimensional airfoil with nonlinear springs based on center-manifold reduction. (English summary) 95k:73075
- Hendel, Klaus ★ Qualitative und quantitative Untersuchungen der Dynamik von Mehrkörpersystemen mittels Störungsgleichungen und 1. Integralen. (German) [Qualitative and quantitative investigations of the dynamics of multibody systems via perturbation equations and first integrals] 95i:70004
- Heng, H. (with Doerner, R.; Hübinger, B.; Martienssen, W.) Approaching nonlinear dynamics by studying the motion of a pendulum. I. Observing trajectories in state space. (English summary)
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- see also Heng, H.; et al. and Doerner, R.; et al.
- Khusnutdinova, K. R. Nonlinear waves in a two-row system of particles. (Russian. Russian summary) 95c:73024
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- Kleczka, W. (with Kreuzer, E.) On approximations of non-smooth functions in bifurcation analysis. (English summary) (see 95f:58003)
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- Korotkina, M. R. Nonlocal boundary value problems. (Russian. Russian summary) 95c:73011
- Kreuzer, E. see Kleczka, W., (95f:58003)

- Kuhn, A. (with Steiner, W.; Zemann, Josef Viktor; Dinevski, D.; Troger, H.) A comparison of various mathematical formulations and numerical solution methods for the large amplitude oscillations of a string pendulum. (English summary) 95k:73059
- Lai, Ding Wen (with Wang, Zheng Xian) Existence of periodic solutions in an oscillatory system with two degrees of freedom in three-phase power systems. (Chinese. English summary) 95m:34070
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- Monteiro Marques, Manuel D. P. An existence, uniqueness and regularity study of the dynamics of systems with one-dimensional friction. (English summary) 95d:34028
- Nageswara Rao, B. Comments on: "Harmonic balance: comparison of equation of motion and energy methods" [J. Sound Vibration 164 (1993), no. 1, 179-181; MR 94h:34046] by S. Hiamang and R. E. Mickens. 95g:34061
- Narayanan, S. (with Sekar, P.) Bifurcation and chaos of coupled systems by fast incremental harmonic balancing. (English summary) (see 95f:58003)
- Polyanin, A. D. (with Zhurov, A. I.) An algebraic method for the integration of differential equations in nonlinear mechanics. (Russian) 95f:34002
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- Rand, Richard H. ★ Topics in nonlinear dynamics with computer algebra. (English summary) 95d:70001
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- Zaitsev, V. V. The modeling of nonlinear oscillations of an elastic system with hysteresis and relaxation. (Russian. English and Russian summaries) 95f:73049
- Zeković, D. On the motion of an integrable system with a nonlinear nonholonomic constraint. The case of resonance relations. (Russian)
- Zemann, Josef Viktor see Kuhn, A.; et al., 95f:73059
- Zhurov, A. I. see Polyanin, A. D., 95f:34002

70L05 Random vibrations [see also 73K35, 93Exx]

- Baratta, A. Approximate solution of the Fokker-Planck-Kolmogorov equation for dynamical systems. 95b:70034
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- Konashenkova, T. D. (with Moshchuk, N. K.) Stochastic mechanical systems with a unilateral constraint. (Russian. Russian summary) 95g:70027
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- Soize, C. Stationary response of multidimensional second order dynamical systems with inertial non-linearity subjected to wide-band random external excitations. (English summary) 95h:70035
- Soong, T. T. see Zhu, Wei Qiu; et al., 95f:70035
- Spanos, Pol-T. D. (with Miller, Scott Michael) Hilbert transform generalization of a classical random vibration integral. (English summary) 95f:70036
- Zhu, Wei Qiu (with Soong, T. T.; Lei, Ying) Equivalent nonlinear system method for stochastically excited Hamiltonian systems. (English summary) 95f:70035

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- Bontempi, F. Computational aspects in chaotic and stochastic dynamics. 95g:65112
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- Di Paola, M. Stochastic differential calculus. (see 95a:73001)
- Doyle, Monica M. see Sri Namachchivaya, N., (95f:58003)
- Faravelli, L. Dynamic analysis of complex structural systems. (see 95a:73001)

- Kuz'min, V. P. (with Yaroshevskii, V. A.) Estimating the probability of large surges in a randomly perturbed second-order dynamic system. (Russian. Russian summary) 95j:34084
- Langtangen, Hans Petter Numerical solution of first passage problems in random vibrations. (English summary) 95a:65223
- Lin, Yukweng Michael (with Cai, Guo Qiang) Stochastic stability of nonlinear systems. (English summary) 95h:34083
- Mitropol'skii, Yu. A. (with Nguyễn Văn Đạo; Nguyen Dong Anh) ★ Нелинейные колебания в системах произвольного порядка. (Russian. Russian summary) [Nonlinear oscillations in systems of arbitrary order] 95c:34035
- Moshchuk, N. K. On the motion of Chaplygin's sledge under random perturbations. (Russian. Russian summary) 95i:70013
- Muscolino, G. Response of linear and nonlinear structural systems under Gaussian or non-Gaussian filtered input. 95c:73094
- Neiman, A. B. (with Schimansky-Geier, Lutz) Stochastic resonance in two coupled bistable systems. (English summary)
- Nguyen Dong Anh see Mitropol'skii, Yu. A.; et al., 95c:34035
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- Tertychnyi, V. Yu. Optimal control model with energy criterion in stochastic Lagrange mechanics. (English summary) 95d:93086
- Weerasinghe, Ananda P. N. The winding problem for stochastic oscillators. (see 94d:00021)
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- Aganin, A. Yu. Stabilization of a symmetric artificial satellite of the Sun in a light pressure force field. (Russian. Russian summary) 95f:70036
- Beletskii, V. V. (with Grushevskii, A. V.) Evolution of the rotations of a satellite under dissipative aerodynamic torque. (Russian. Russian summary) 95c:70037
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- Kostrov, A. V. (with Mardiyuk, A. M.) A mathematical problem in the theory of the motion of rockets. (Russian. Russian summary) 95f:70037
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- Novoselov, V. S. Branching of extremal coplanar two-impulse trajectories of transfer between close nearly circular orbits. (Russian. English and Russian summaries) 95b:70011
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- Hussain, Naveed M. (with Kane, Thomas R.) Three-dimensional reorientation of a system of interconnected rigid bodies. (English summary) 95a:70001
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- Tutubalin, V. N. Correlation analysis of random quaternions. (Russian. Russian summary) 95g:60014

- Vaishampayan, Sarita V. (with Sharma, Krishna Chandra) Constants of motion of a general space vehicle. (English summary) 95g:70019
- Wang, Li Sheng (with Ch'en, Shu Chieh; Shih, Chih Wên) On the dynamics of a tethered satellite system. (English summary) 95h:70027
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70P05 Variable mass, rockets

- Boleanu, M. Sur la dynamique du point à masse variable. (French summary) [On the dynamics of a point with variable mass]
- Luo, Shao Kai First integrals and integral invariants for variable mass nonholonomic system in noninertial reference frames. (Chinese. English and Chinese summaries) 95c:70039
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- Luo, Shao Kai Dynamics of higher-order non-Chetaev nonholonomic constrained systems with variable mass. (Chinese. Chinese summary) 95h:70023
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- Neshcheret, V. I. Algorithms for locally optimal control of the programmed motion of an aircraft. (Russian. Russian summary) (see 95b:76001)
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- Longuski, James M. see Tsiotras, Panagiotis
- Luo, Zheng Hua see Guo, Bao Zhu. 95j:73063
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73-XX Mechanics of solids

73-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Mackler, Jaroslav Thermomechanical analysis with finite and boundary element methods—a bibliography (1992–1994). (English summary)

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Items with secondary classifications in 73-02

Boulanger, Ph. (with Hayes, Michael A.) ★ Bivectors and waves in mechanics and optics. (English summary) 95g:73015

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73-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 73-03

Dauben, Joseph Warren ★ Abraham Robinson. (English summary) 95m:01016

Fabrizio, Mauro On the Graffi's contributions in material with fading memory. (*see* 95j:00017)

(Graffi, Dario) *see* Fabrizio, Mauro, (95j:00017) and Renno, P., (95j:00017)

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73-04 Explicit machine computation and programs (not the theory of computation or programming)

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Anastasselos, G. T. *see* Ioakimidis, Nikolaos I.

Farhat, Charbel (with Roux, François-Xavier) Implicit parallel processing in structural mechanics. (English summary) 95c:73078

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73-05 Experimental papers

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Jiang, Qing (with Knowles, James K.) A thermoelastic model for an experiment involving a solid-solid phase transition. (English summary) 95j:73015

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73-06 Proceedings, conferences, collections, etc.

(Bauer, Jacek) *see* Discrete structural optimization

(Bui, Huy Duong) *see* Inverse problems in engineering mechanics, 95e:73001

(Casciati, F.) *see* Dynamic motion: chaotic and stochastic behaviour, 95a:73001

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(Engelbrecht, Jüri K.) *see* Nonlinear waves in solids, 95a:73003

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(Fomin, Vasilii Mikhailovich) *see* Filtration of multiphase systems, 95a:73002 and Numerical methods for solving problems of the theory of elasticity and plasticity

(Fujitani, Yoshinobu) *see* Modelling, computation and analysis in fracture mechanics, 95d:73002

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(James, Richard Dana) *see* Microstructure and phase transition, 95i:73004

(Jeffrey, Alan) *see* Nonlinear waves in solids, 95a:73003

(Keppien, I. V.) *see* Elasticity and inelasticity, Part 2, 95i:73003

(Kinderlehrer, David) *see* Microstructure and phase transition, 95i:73004

(Korotkina, M. P.) *see* Elasticity and inelasticity, Part 2, 95i:73003

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(Nieuwstadt, F. T. M.) *see* Topics in applied mechanics, 95g:73001

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Numerical Methods for Solving Problems of the Theory of Elasticity and Plasticity

★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems of the theory of elasticity and plasticity]

All-Union Seminar:

Filtration of Multiphase Systems ★ Фильтрация многофазных систем. (Russian) [Filtration of multiphase systems] 95a:73002

Asymptotic methods for elastic structures ★ Asymptotic methods for elastic structures. 95m:73002

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Lehmann, Theodor ★ Non-equilibrium thermodynamics with application to solids. 95i:73005

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(Cohen, Gary) see Mathematical and numerical aspects of wave propagation, 95m:00022

(Miele, Angelo) see Applied mathematics in aerospace science and engineering, 95i:00024

(Naugetnykh, K. A.) see Nonlinear acoustics, 95e:76092

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(Pobedrya, B. E.) see Numerical modeling in problems of mechanics, 95k:00019

(Rionero, Salvatore) see Waves and stability in continuous media, 95j:00017

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73A05 Axiomatics, foundations of solid mechanics

Bedeaux, D. see Murdoch, A. I., 95f:73001

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Montanaro, Adriano Definitions of standard stress and standard heat flux, in simple bodies, treated according to Mach and Painlevé. (English and Italian summaries) 95f:73008

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73Bxx Continuum mechanics of solids (constitutive description and properties)

Maugin, Gérard A. ★ Material inhomogeneities in elasticity. (English summary) 95c:73001

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Hughes, Thomas J. R. see Marsden, Jerrold E., 95h:73022

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73B05 Constitutive equations

Chen, Wai Fah (with Saleeb, Atef F.) ★ Constitutive equations for engineering materials. Vol. 1. 95g:73002a

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Zheng, Quan Shui A note on representation for isotropic functions of 4th-order tensors in 2-dimensional space. 95f:73002

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Abeyaratne, Rohan (with Kim, Sang-Joo; Knowles, James K.) A one-dimensional continuum model for shape-memory alloys. (English summary) 95g:73004

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- Leugering, Günter see Lagnese, J. E.; et al., **95d:93003**
- Lu, Qi Shao see Cheng, Yao; et al., **95m:70005**
- Pivovarchik, V. N. Necessary conditions for gyroscopic stabilization in a problem of mechanics. (Russian. Russian summary) **95k:47107**
- A lower bound of the instability index in the vibration problem for an elastic fluid-conveying pipe. (English summary) **95g:73042**
- Rebaber, Richard Exponential stability of coupled beams with dissipative joints: a frequency domain approach. (English summary) **95i:93103**
- Schaeffer, David G. see Shearer, Michael, **95m:73030**
- Schmidt, E. J. P. Georg see Lagnese, J. E.; et al., **95d:93003**
- Shearer, Michael (with Schaeffer, David G.) Unloading near a shear band in granular material. **95m:73030**
- Vakakis, Alexander F. see King, Melvin E., **95k:73053**
- Zak, Michail Postinstability models in dynamics. (English summary) **95k:70046**

73H99 None of the above, but in this section

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- An, Lian Jun (with Peirce, Anthony) The effect of microstructure on elastic-plastic models. (English summary) **95j:73047**
- (with Peirce, Anthony) A weakly nonlinear analysis of elastoplastic-microstructure models. (English summary) **95j:73048**
- Bigoni, D. (with Zaccaria, D.) On the eigenvalues of the acoustic tensor in elastoplasticity. (English summary) **95h:73042**
- Charalambakis, Nicolas Shear banding in non-uniform straining of ductile strain-rate sensitive materials—a steady strain-rate approximation. (English summary) **95i:73039**
- Drucker, Daniel C. see Li, Ming, **95j:73045**
- Dunn, J. Ernest (with Fosdick, Roger) The Weierstrass condition for a special class of elastic materials. **95g:73027**
- Fosdick, Roger see Dunn, J. Ernest, **95g:73027**
- Geymonat, Giuseppe (with Léger, Alain) Some remarks on the axisymmetric equilibria of a thin shallow spherical cap. **95h:73050**
- Léger, Alain see Geymonat, Giuseppe, **95h:73050**
- Li, Ming (with Drucker, Daniel C.) Instability and bifurcation of a nonassociated extended Mises model in the hardening regime. (English summary) **95j:73045**
- Orlov, V. P. Stability of some mathematical models of thermoviscoelasticity. (Russian. Russian summary) **95a:73036**
- Parland, H. Stability of rigid body assemblages with dilatant interfacial contact sliding. (English summary) **95i:73066**
- Peirce, Anthony see An, Lian Jun, **95j:73047** and **95j:73048**
- Ryzhak, E. I. On stability of homogeneous elastic bodies under boundary conditions weaker than displacement conditions. (English summary) **95j:73024**
- Zaccaria, D. see Bigoni, D., **95h:73042**

73Kxx Mechanics of structures

Items with secondary classifications in 73Kxx

- Ciarlet, Philippe G. (with Asymptotic methods for elastic structures, **95m:73002**
- Cornier, Alain ★ Méthodes numériques en mécanique des solides. (French. French summary) [Numerical methods in the mechanics of solids] **95i:73001a**
- ★ Computational methods in solid mechanics. (English summary) **95i:73001b**
- Eschenauer, Hans (with Schnell, Walter) ★ Elastizitätstheorie. (German. German summary) [Elasticity theory] **95k:73001a**
- (with Schnell, Walter) ★ Elastizitätstheorie. (German. German summary) [Elasticity theory] **95k:73001b**
- Schnell, Walter see Eschenauer, Hans, **95k:73001a** and **95k:73001b**
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- (Viano Rey, Juan M.) see Asymptotic methods for elastic structures, **95m:73002**

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- Asymptotic methods for elastic structures ★ Asymptotic methods for elastic structures. **95m:73002**
- Conference:
- Asymptotic Methods for Elastic Structures ★ Asymptotic methods for elastic structures. **95m:73002**
- Lisbon ★ Asymptotic methods for elastic structures. **95m:73002**

73K03 Strings

- Mote, C. D., Jr. see Zhu, W. D.
- O'Reilly, O. M. (with Varadi, P.) Elastic equilibria of translating cables. (English summary) **95i:73045**
- Varadi, P. see O'Reilly, O. M., **95i:73045**
- Zhu, W. D. (with Mote, C. D., Jr.) Dynamics of the piano string and narrow hammers. (English summary)

Items with secondary classifications in 73K03

- Krabs, W. (with Leugering, Günter) On boundary controllability of one-dimensional vibrating systems by $W_0^{1,p}$ -controls for $p \in [2, \infty]$. (English summary) **95a:93010**
- Leugering, Günter see Krabs, W., **95a:93010**
- Manacorda, Tristano On the transverse vibrations of an elastic string. (Italian. English summary) **95a:73040**
- Metrikina, A. V. Transient radiation in a string lying on a nonhomogeneous elastic base. (Russian. Russian summary) **95i:73036**

73K05 Beams, columns, rods

- Álvarez Vázquez, L. (with Viano Rey, Juan M.) Derivation of an evolution model for nonlinearly elastic beams by asymptotic expansion methods. (English summary) **95c:73050**
- (with Viano Rey, Juan M.) Asymptotic justification of an evolution linear thermoelastic model for rods. (English summary) **95c:73051**
- Bielski, Włodzimierz Robert see Galka, Andrzej; et al., **95g:73028**
- Cowin, Stephen C. see Zhang, Dajun
- Desch, Wolfgang (with Grimmer, Ronald) Coupled elastic and viscoelastic rods. (English summary) **95a:73046**
- Dichmann, Donald J. see Maddocks, John H., **95c:73052**
- Du, Qiang see Wang, Chang Yi, **95j:73057**
- England, A. H. see Gregory, P. W.; et al., **95a:73047**
- Galka, Andrzej (with Telega, Józef Joachim; Bielski, Włodzimierz Robert) Contribution to dual variational principles for nonlinear elastic beams. (English summary) **95g:73028**
- Gregory, P. W. (with Rogers, T. G.; England, A. H.) Loading and unloading of highly anisotropic elastic-plastic beams. (English summary) **95a:73047**
- Grimmer, Ronald see Desch, Wolfgang, **95a:73046**
- Jelenić, G. (with Saje, M.) A kinematically exact space finite strain beam model—finite element formulation by generalized virtual work principle. (English summary) **95k:73052**
- Kecs, Antonela The bending of the elastic rods under the action of a stamp. (English summary)
- Khdeir, A. A. (with Reddy, J. N.) Free vibration of cross-ply laminated beams with arbitrary boundary conditions. (English summary) **95g:73029**
- King, Melvin E. (with Vakakis, Alexander F.) Mode localization in a system of coupled flexible beams with geometric nonlinearities. (English and German summaries) **95k:73053**
- Li, Shaofan see Vu-Quoc, L., **95k:73056**
- Los', M. V. (with Ordonovich, A. E.) Determination of the form of a flexible rod under axial compression and torsion. (Russian. Russian summary) **95k:73054**
- Maddocks, John H. (with Dichmann, Donald J.) Conservation laws in the dynamics of rods. (English summary) **95c:73052**
- McAllister, G. T. Approximation of minimal maximal deflection of nonlinear beams. (English summary) **95k:73055**
- Ordonovich, A. E. see Los', M. V., **95k:73054**
- Reddy, J. N. see Khdeir, A. A., **95g:73029**
- Rogers, T. G. see Gregory, P. W.; et al., **95a:73047**
- Saje, M. see Jelenić, G., **95k:73052**
- Siddiqui, A. An integral involving the multivariable H -function and its application in the angular displacement of a shaft. (English summary)
- Telega, Józef Joachim see Galka, Andrzej; et al., **95g:73028**
- Vakakis, Alexander F. see King, Melvin E., **95k:73053**
- Viano Rey, Juan M. see Álvarez Vázquez, L., **95c:73050** and **95c:73051**
- Vu-Quoc, L. (with Li, Shaofan) Dynamics of sliding geometrically-exact beams: large angle maneuver and parametric resonance. (English summary) **95k:73056**
- Wang, Chang Yi (with Du, Qiang) Study of an inclined, segmented cantilever with tip load. (English summary) **95j:73057**
- Wang, Hui Zhen The exact spectral structure of Bernoulli's beam vibration model. (Chinese. Chinese summary)
- Zhang, Dajun (with Cowin, Stephen C.) Oscillatory bending of a poroelastic beam. (English summary)

Items with secondary classifications in 73K05

- Antman, Stuart S. (with Marlow, Randall S.) New phenomena in the buckling of arches described by refined theories. (English summary) **95b:73015**
- (with Marlow, Randall S.) Correction to: "Transcritical buckling of columns" [Z. Angew. Math. Phys. 43 (1992), no. 1, 7–27; MR 93e:73018]. **95b:73047**
- Anzellotti, Gabriele (with Baldo, Sisto; Percivale, D.) Dimension reduction in variational problems, asymptotic development in Γ -convergence and thin structures in elasticity. (English summary) **95j:73003**
- Ariaratnam, S. T. (with Xie, W. C.) Wave localization in randomly disordered nearly periodic long continuous beams. (English summary) **95k:73036**
- Astaburuaga, M. A. (with Fernández, Claudio A.; Perla Menzala, Gustavo) Local smoothing effects for a nonlinear Timoshenko type equation. **95i:35290**
- Astapov, N. S. Supercritical behavior of a rod on a nonlinearly elastic base. (Russian. English and Russian summaries) **95c:73048**
- (with Kornev, V. M.) Supercritical behavior of an ideal rod on an elastic base. (Russian) **95c:73049**
- Audounet, J. see Mbodje, Brahim; et al., **95j:73051**

- Aufranc, Martial** ★ Sur quelques problèmes de jonctions dans les multi-structures élastiques. (French. French summary) [Some problems of junctions in elastic multistructures] 95d:73012
- Baldo, Sisto** see Anzellotti, Gabriele; et al. 95f:73003
- Batra, G.** Acceleration waves in an extensible elastica. (English summary) 95d:73020
- Shock waves in an extensible elastica. (English summary) 95d:73021
- Benaroya, Haym** see Li, Dong. 95f:73035
- Brandts, Jan H.** A note on uniform superconvergence for the Timoshenko beam using mixed finite elements. (English summary) 95h:73064
- Buitelaar, R. P.** On the averaging method for rod equations with quadratic nonlinearity. (English summary) 95a:73031
- Cheng, Yao Shun** (with Lu, Wen Da; Yuan, Shi Zhong) Exact solutions for the inelastic buckling of a cruciform column. (Chinese. English and Chinese summaries)
- Di Blasio, Gabriella** (with Kunisch, Karl; Sinestrari, Eugenio) Mathematical models for the elastic beam with structural damping. (English summary) 95e:34049
- Domokos, Gábor** (with Holmes, Philip J.) Erratum: "On non-inflectional solutions of non-uniform elasticae" [Internat. J. Non-Linear Mech. 28 (1993), no. 6, 677–685; MR 94m:73057]. 95j:73056
- Drábek, Pavel** Jumping nonlinearities and mathematical models of suspension bridge. (English summary) 95k:35204
- Dunskaia, N. V.** (with Pyatnitskii, E. S.) Design of a generating system in the problem of the control of an elastic rod. (Russian. Russian summary) 95k:73070
- Elishakoff, I.** (with Lin, Yukweng Michael; Zhu, L. P.) ★ Probabilistic and convex modelling of acoustically excited structures. 95k:73067
- Ette, A. M.** On the dynamic buckling of a finite imperfect simply supported column on quadratic-cubic foundations under step loading—analytical approach. (English summary) 95m:73038
- Feng, Y.** The study of nonlinear flexings in a floating beam by variational methods. (English summary) 95k:35206
- Feng, Zaichun** (with Leal, L. G.) Symmetries of the amplitude equations of an inextensional beam with internal resonance. (English summary) 95m:73041
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- see also Astaburraga, M. A.; et al. 95i:35290
- Fitzgibbon, W. E.** (with Parrott, M. E.; You, Yun Cheng) Global dynamics of coupled systems modeling nonplanar beam motion. 95c:35207
- Gambin, Barbara** Stochastic homogenization. (English summary) 95i:60055
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- Hála, Martin** Method of Ritz for random eigenvalue problems. (English summary) 95g:65107
- Han, Weimin** (with Zhou, Jin Shi) A posteriori error analysis for material idealizations in modeling one-dimensional elastostatic problems. (English summary) 95c:73025
- Hansen, Scott W.** Boundary control of a one-dimensional linear thermoelastic rod. (English summary) 95h:93046
- Holmes, Philip J.** see Domokos, Gábor. 95j:73056
- Huang, Zheng Hong** On the solutions of the nonlinear Pochhammer-Chree equation. (Chinese. English and Chinese summaries) 95c:35255
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- Jacover, Daniela** (with McKenna, Patrick J.) Nonlinear torsional flexings in a periodically forced suspended beam. (English summary) 95f:73053
- Jie, Min** A sufficient condition for Lyapunov stability of an elastic column under an axial dynamic load. (Chinese. English and Chinese summaries)
- Kim, Yong-Woo** see Min, Oak-Key. 95a:73070
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- Lancaster, Peter** (with Shkalikov, A. A.) Damped vibrations of beams and related spectral problems. (English summary) 95m:47090
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- Li, Dong** (with Benaroya, Haym) Waves, normal modes and frequencies in periodic and near-periodic rods. I, II. (English summary) 95i:73035
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- Miller, Robert E.** The eigenvalue problem for a class of long, thin elastic structures with periodic geometry. (English summary) 95c:73008
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- Rebarber, Richard** Exponential stability of coupled beams with dissipative joints: a frequency domain approach. (English summary) 95i:93103
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- Vessella, Sergio** (with Vitolo, Antonio) Stability estimates in time-backwards problem for the rod equation. (English summary) 95i:35295
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73K10 Plates, discs, membranes

- Abdou, Mohamed A.** (with Khar-El din, E. A.) An infinite plate weakened by a hole having arbitrary shape. (English summary)
- Beck, Armin** (with Grabmüller, H.) Wrinkle-free solutions in the theory of curved circular membranes. (English summary) 95f:73046
- Belyaeva, M. M.** (with Buryshkin, M. L.; Zlatina, I. N.; Galaktionov, E. V.) ★ Метод малого параметра в обобщенных периодических задачах изгиба перфорированных пластин. (Russian. English and Russian summaries) [The small parameter method in generalized periodic problems of the bending of perforated plates] 95i:73046
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- Knöple, B.** The hypersingular integral equation for the bending moments m_{xx} , m_{xy} and m_{yy} of the Kirchhoff plate. (English summary) 95k:73057

- Kornev, A. A. On a method for solving the Timoshenko-Reissner equations in the theory of thin elastic plates. (Russian) 95c:73053
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- Librescu, L. Comments on: "On vibration and buckling of symmetric laminated plates according to shear deformation theories. I, II" [Acta Mech. 94 (1992), no. 3-4, 123-144, 145-169; MR 93g:73078] by A. Nosier and J. N. Reddy.
— see also Schmidt, Rüdiger
- Mackenzie, Jaroslav Static and dynamic analysis of plates using finite element and boundary element techniques—a bibliography (1992-1994). (English summary)
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— (with Yu, J. D.) Equations for a laminated piezoelectric plate. (English summary)
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- Anzellotti, Gabriele (with Baldo, Sisto; Percivale, D.) Dimension reduction in variational problems, asymptotic development in Γ -convergence and thin structures in elasticity. (English summary) 95j:73003
- Argyris, John (with Tenek, Lazarus H.) An efficient and locking-free flat anisotropic plate and shell triangular element. (English summary) 95e:73041
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73K99 None of the above, but in this section

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- Mäkelä, Marko M. (with Männikkö, Timo) Numerical solution of nonsmooth optimal control problems with an application to the continuous casting process. (English summary) 95h:73029
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- Mamedov, A. K. An inverse problem related to the determination of elastoplastic properties of a cylindrical bar. (English summary) 95i:73041
- Männikkö, Timo see Mäkelä, Marko M.
- Marsden, Jerrold E. (with Hughes, Thomas J. R.) ★ Mathematical foundations of elasticity. (English summary) 95h:73022
- Martin, John B. (with Caddemi, S.) Sufficient conditions for convergence of the Newton-Raphson iterative algorithm in incremental elastic-plastic analysis. (English summary) 95c:73083
- McKenna, Patrick J. see Choi, Yung Sze; et al. 95i:73052
- Mistakidis, E. S. see Panagiotopoulos, P. D.; et al. 95c:73013
- Molotov, I. P. see Rvachëv, V. L.; et al.
- Morro, Angelo see Caviglia, Giacomo. 95b:73008
- Natroskhvili, D. G. Mathematical problems of the anisotropic elasticity for piecewise homogeneous bodies. 95f:73024
- Nemat-Nasser, Sia (with Ni, Lu Qun) Effective constitutive algorithms in elastoplasticity and elastoviscoplasticity. (English summary) 95h:73039
- Nemish, Yu. N. On the solution of three-dimensional problems for layered bodies with curved interfaces. (Russian. English, Russian and Ukrainian summaries) 95k:73065
- Ni, Lu Qun see Nemat-Nasser, Sia. 95h:73039
- Panagiotopoulos, P. D. (with Panagoulis, O. K.; Mistakidis, E. S.) On the consideration of the geometric and physical fractality in solid mechanics. I. Theoretical results. (English and German summaries) 95c:73013
- (with Panagoulis, O. K.; Koltsakis, E. K.) The B.E.M. in plane elastic bodies with cracks and/or boundaries of fractal geometry. (English summary) 95j:73071
- Panagoulis, O. K. see Panagiotopoulos, P. D.; et al. 95c:73013 and 95j:73071
- Power, Henry see Régio Silva, J. J.; et al. 95k:73035
- Régio Silva, J. J. (with Power, Henry; Wrobel, L. C.) A new integral formulation for 3D elastic wave propagation. (English summary) 95k:73035
- Rvachëv, V. L. (with Sinekop, N. S.; Molotov, I. P.) A quasistatic contact problem in thermoelectricity for bodies of finite dimensions. (Russian. English and Ukrainian summaries)
- Schwab, Christoph Boundary layer resolution in hierarchical models of laminated composites. (English and French summaries) 95g:73036
- Schwarz, Günter see Binz, E. 95i:58067
- Sellier, A. Hadamard's finite part concept in dimension $n \geq 2$, distributional definition, regularization forms and distributional derivatives. (English summary) 95k:46062
- Sinekop, N. S. see Rvachëv, V. L.; et al.
- Smagin, S. I. see Ershov, N. E. 95c:73021
- Smirnov, A. L. see Bauer, S. M.; et al. 95m:34090
- Sobieszczański-Sobieski, J. Recent mathematical methods for engineering system design. I.

- Overcoming Bellman's curse of dimensionality in large optimization problems. (English summary) (see 95i:00024)
- Recent mathematical methods for engineering system design. II. System approach in engineering optimization. (English summary) (see 95i:00024)
- Spies, Ruben D. A state-space approach to a one-dimensional mathematical model for the dynamics of phase transitions in pseudoelastic materials. (English summary) 95k:73013
- Tovstik, P. E. see Bauer, S. M.; et al. 95m:34090
- Wang, Chang Yi (with Du, Qiang) Study of an inclined, segmented cantilever with tip load. (English summary) 95j:73057
- Wrobel, L. C. see Régio Silva, J. J.; et al. 95k:73035
- Wu, Xiao Jie see Zhou, Xi Reng. 95k:73029
- Xie, Zhi Yun (with Chandra, N.) Application of equation regulation method to the solution of inverse problems in multiphase materials. (English summary) 95a:34020
- Zhou, Xi Reng (with Wu, Xiao Jie) The fundamental solution and boundary integral equation for a three-dimensional transient elastodynamic field. (Chinese. English summary) 95k:73029
- Zisis, V. A. see Ladopoulos, E. G.; et al. 95d:73010
- Zlatina, I. N. see Bogdanov, N. N.; et al. 95k:73058

76-XX Fluid mechanics {For general continuum mechanics, see 73Bxx, or other parts of 73-XX.}

76-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Chevray, Rene (with Mathieu, Jean Emile) ★ Topics in fluid mechanics. 95j:76001
- Leray, Jean Aspects de la mécanique théorique des fluides. (French summary) [Aspects of theoretical fluid mechanics]
- Lortz, Dietrich ★ Hydrodynamik. (German. German summary) [Hydrodynamics] 95d:76001
- Mathieu, Jean Emile see Chevray, Rene. 95j:76001
- Items with secondary classifications in 76-01
- Chandrasekharaiah, D. S. (with Debnath, Lokenath) ★ Continuum mechanics. 95h:73003
- Debnath, Lokenath see Chandrasekharaiah, D. S. 95h:73003
- Lortz, Dietrich ★ Magnetohydrodynamik. (German. German summary) [Magnetohydrodynamics] 95c:76116
- Ockendon, H. (with Ockendon, J. R.) ★ Viscous flow. (English summary) 95k:76025
- Ockendon, J. R. see Ockendon, H. 95k:76025
- Ramachandran, P. A. ★ Boundary element methods in transport phenomena. 95f:65004
- Roberts, A. J. ★ A one-dimensional introduction to continuum mechanics. (English summary) 95k:73002

76-02 Research exposition (monographs, survey articles)

- Biskamp, Dieter ★ Nonlinear magnetohydrodynamics. (English summary) 95d:76002
- Feistauer, Miloslav ★ Mathematical methods in fluid dynamics. 95d:76003
- Goncharov, V. P. (with Pavlov, Vadim Ivanovich) ★ Проблемы гидродинамики в гамильтоновом описании. (Russian. Russian summary) [Problems of fluid dynamics in a Hamiltonian description] 95h:76001
- Pavlov, Vadim Ivanovich see Goncharov, V. P. 95h:76001
- Petviashvili, V. I. (with Pokhotelov, O. A.) ★ Solitary waves in plasmas and in the atmosphere. (English summary) 95f:76001
- Pokhotelov, O. A. see Petviashvili, V. I. 95f:76001
- Items with secondary classifications in 76-02
- Anile, A. M. (with Hunter, John K.; Pantano, P.; Russo, Giovanni) ★ Ray methods for nonlinear waves in fluids and plasmas. (English summary) 95f:35200
- Chorin, Alexandre J. ★ Vorticity and turbulence. 95m:76043
- Chossat, Pascal (with Iooss, Gérard) ★ The Couette-Taylor problem. 95d:76049
- (Cook, L. Pamela) see Transonic aerodynamics. 95h:76052
- Hunter, John K. see Anile, A. M.; et al. 95f:35200
- Iooss, Gérard see Chossat, Pascal. 95d:76049
- Lushchik, V. G. (with Pavlov, A. A.; Yakubenko, A. E.) Turbulent flows. Models and numerical investigations. A review. (Russian. Russian summary) 95i:76047
- Pantano, P. see Anile, A. M.; et al. 95f:35200
- Pavlov, A. A. see Lushchik, V. G.; et al. 95i:76047
- Russo, Giovanni see Anile, A. M.; et al. 95f:35200
- Yakubenko, A. E. see Lushchik, V. G.; et al. 95i:76047
- Yee, H. C. A class of high-resolution explicit and implicit shock-capturing methods. (English summary) 95k:76086

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Transonic aerodynamics ★ Transonic aerodynamics. 95b:76052

76-03 Historical (must also be assigned at least one classification number from Section 01)

- Tokaty, G. A. ★ A history and philosophy of fluid mechanics. (English summary) 95g:76001
- Van Dyke, Milton Nineteenth-century roots of the boundary-layer idea. (English summary) 95c:76001

Items with secondary classifications in 76-03

- (Chaplygin, S. A.) *see* Lishevskii, V. P.
 Chou, Ru Ling *see* Zhou, Pei Yuan, (95i:76001)
 Fuller, A. T. Maxwell's treatment of Siemens's hydraulic governor. (English summary) 95g:93002
 (Graffi, Dario) *see* Rionero, Salvatore, (95j:00017)
 van Heijst, G. J. F. *see* Meleshko, V. V., 95f:76013
 Lishevskii, V. P. On the 125th anniversary of the birth of Academician S. A. Chaplygin, Director of the Central Aerohydrodynamic Institute. (Russian)
 (Lumley, John L.) *see* Zhou, Pei Yuan, (95i:76001)
 Meleshko, V. V. (with van Heijst, G. J. F.) On Chaplygin's investigations of two-dimensional vortex structures in an inviscid fluid. (English summary) 95f:76013
 Rionero, Salvatore On the Graffi's contributions to uniqueness of fluid motions in unbounded domains. (see 95j:00017)
 Ventrice, Pasquale Jacopo Riccati, theoretical hydraulics in the Veneto and the development of hydrodynamics. (Italian) (see 95b:01006)
 Zhou, Pei Yuan (with Chou, Ru Ling) 50 years of turbulence research in China. (see 95i:76001)

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Anniversary:

Birth of Chaplygin, S. A. *see* Lishevskii, V. P.

76-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 76-04

- (Brandsma, Frans) *see* EUROVAL—an European initiative on validation of CFD codes, 95b:76056
 Byers, J. A. (with Dimits, A. M.; Matsuda, Yoshi; Langdon, A. B.) Numerical instability in a 2D gyrokinetic code caused by divergent $E \times B$ flow. (English summary) 95h:76087
 Dimits, A. M. *see* Byers, J. A.; et al., 95h:76087
 (Ecer, A.) *see* Parallel computational fluid dynamics, 95m:76003
 (Elsholz, Eberhard) *see* EUROVAL—an European initiative on validation of CFD codes, 95b:76056
 (Haase, Werner) *see* EUROVAL—an European initiative on validation of CFD codes, 95b:76056
 (Häuser, Jochem) *see* Parallel computational fluid dynamics, 95m:76003
 Langdon, A. B. *see* Byers, J. A.; et al., 95h:76087
 (Leca, P.) *see* Parallel computational fluid dynamics, 95m:76003
 (Leschziner, Michael) *see* EUROVAL—an European initiative on validation of CFD codes, 95b:76056
 Matsuda, Yoshi *see* Byers, J. A.; et al., 95h:76087
 (Périaux, Jacques) *see* Parallel computational fluid dynamics, 95m:76003
 (Schwamborn, Dieter) *see* EUROVAL—an European initiative on validation of CFD codes, 95b:76056

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Conference:

- Parallel Computing Fluid Dynamics ★ Parallel computational fluid dynamics. 95m:76003
 EUROVAL—an European initiative on validation of CFD codes ★ EUROVAL—an European initiative on validation of CFD codes. 95b:76056
 Parallel computational fluid dynamics ★ Parallel computational fluid dynamics. 95m:76003
 Paris ★ Parallel computational fluid dynamics. 95m:76003

76-05 Experimental papers

- Edwards, W. S. (with Fauve, S.) Patterns and quasi-patterns in the Faraday experiment. (English summary) 95g:76002
 Fauve, S. *see* Edwards, W. S., 95g:76002
 Kobine, J. J. (with Mullin, Tom) Low-dimensional bifurcation phenomena in Taylor-Couette flow with discrete azimuthal symmetry. (English summary) 95f:76002
 Makarenko, V. G. Dependence of the time of the formation of oscillating vortices on the frequency of the perturbation of a rotating fluid. (Russian)
 Mullin, Tom *see* Kobine, J. J., 95f:76002

Items with secondary classifications in 76-05

- Afanas'ev, Ya. D. *see* Voropaev, S. I., 95j:76122
 Baudet, Christophe *see* Benzi, Roberto; et al., 95i:76046
 Benzi, Roberto (with Ciliberto, Sergio; Baudet, Christophe; Ruiz-Chavarria, Gerardo) On the scaling of three-dimensional homogeneous and isotropic turbulence. (English summary) 95i:76046
 Bloxham, J. *see* Bush, J. W. M.; et al., 95i:76106
 Bolton, Edward W. (with Maurer, Jean) A new roll-type instability in an oscillating fluid plane. (English summary) 95d:76050
 Bradley, C. E. Time harmonic acoustic Bloch wave propagation in periodic waveguides. II. Experiment. (English summary) 95h:76097b
 Bush, J. W. M. (with Stone, H. A.; Bloxham, J.) Axial drop motion in rotating fluids. (English summary) 95i:76106
 Ciliberto, Sergio *see* Benzi, Roberto; et al., 95i:76046
 Gollub, J. P. *see* Liu, Jun³; et al., 95h:76058
 Hutter, K. (with Koch, T.; Plüss, C.; Savage, S. B.) The dynamics of avalanches of granular materials from initiation to runoff. II. Experiments. (English summary)
 Jana, Sadhan C. (with Metcalfe, Guy; Ottino, J. M.) Experimental and computational studies of mixing in complex Stokes flows: the vortex mixing flow and multicellular cavity flows. (English summary) 95b:76022
 Koch, T. *see* Hutter, K.; et al.
 Kolaini, Ali R. *see* Yao, Yitao; et al.

- Liu, Jun³ (with Schneider, J. B.; Gollub, J. P.) Three-dimensional instabilities of film flows. (English summary) 95h:76058
 MacMaster, Alastair G. (with Thompson, J. M. T.) Wave tank testing and the capsizability of hulls. (English summary) 95c:76013
 Maurer, Jean *see* Bolton, Edward W., 95d:76050
 Metcalfe, Guy *see* Jana, Sadhan C.; et al., 95b:76022
 Ottino, J. M. *see* Jana, Sadhan C.; et al., 95b:76022
 Plüss, C. *see* Hutter, K.; et al.
 Ruiz-Chavarria, Gerardo *see* Benzi, Roberto; et al., 95i:76046
 Savage, S. B. *see* Hutter, K.; et al.
 Schneider, J. B. *see* Liu, Jun³; et al., 95h:76058
 Stone, H. A. *see* Bush, J. W. M.; et al., 95i:76106
 Thompson, J. M. T. *see* MacMaster, Alastair G., 95c:76013
 Thorpe, S. A. Statically unstable layers produced by overturning internal gravity waves. (English summary) 95d:76055
 Tulin, Marshall P. *see* Yao, Yitao; et al.
 Voropaev, S. I. (with Afanas'ev, Ya. D.) ★ Vortex structures in a stratified fluid. 95j:76122
 Yao, Yitao (with Tulin, Marshall P.; Kolaini, Ali R.) Theoretical and experimental studies of three-dimensional wavemaking in narrow tanks, including nonlinear phenomena near resonance. (English summary)

76-06 Proceedings, conferences, collections, etc.

- (Baines, M. J.) *see* Numerical methods for fluid dynamics, 95g:76005
 (Barnett, Mark) *see* Advances in analytical methods in modeling of aerodynamic flows, 95g:76003
 (Bernardi, Christine) *see* ICOSAHOM'92, 95b:76002
 (Blake, J. R.) *see* Bubble dynamics and interface phenomena, 95j:76002
 (Boulton-Stone, J. M.) *see* Bubble dynamics and interface phenomena, 95j:76002
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 (Chollet, Jean-Pierre) *see* Direct and large-eddy simulation
 (Davis, Stephen H.) *see* Free boundaries in viscous flows, 95c:76002
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 (Foias, Ciprian) *see* Turbulence in fluid flows, 95i:76002
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 (Häuser, Jochem) *see* Numerical grid generation in computational fluid dynamics and related fields, 95c:76002 and Parallel computational fluid dynamics, 95m:76003
 (Hussaini, M. Y.) *see* Algorithmic trends in computational fluid dynamics, 95d:76004
 (Kleiser, Leonhard) *see* Direct and large-eddy simulation
 (Kumar, Ajay²) *see* Algorithmic trends in computational fluid dynamics, 95d:76004
 (Leca, P.) *see* Parallel computational fluid dynamics, 95m:76003
 (Lin, Sung P.) *see* Nonlinear instability of nonparallel flows, 95j:76003
 (Lumley, John L.) *see* Annual review of fluid mechanics, 95i:76001
 (Mada, Yvon) *see* ICOSAHOM'92, 95b:76002
 (Makarios, Samuel H.) *see* Numerical methods in laminar and turbulent flows, 95g:76006
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 (Morton, K. W.) *see* Numerical methods for fluid dynamics, 95g:76005
 (Oñate, E.) *see* Finite elements in fluids, 95c:76001 and Finite elements in fluids—new trends and applications, 95m:76001
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 (Périaux, Jacques) *see* Finite elements in fluids, 95c:76001; Finite elements in fluids—new trends and applications, 95m:76001; Numerical tools for scientific computation with applications to flow, turbulence and combustion, 95m:76002 and Parallel computational fluid dynamics, 95m:76003
 (Phillips, W. R. C.) *see* Nonlinear instability of nonparallel flows, 95j:76003
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 (Reed, Helen L.) *see* Annual review of fluid mechanics, 95i:76001
 (Ruzhnikov, G. M.) *see* Asymptotic methods in the theory of systems, 95b:76001
 (Salas, M. D.) *see* Algorithmic trends in computational fluid dynamics, 95d:76004
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 (Shokin, Yu. I.) *see* Proceedings: All-Union Conference on Numerical Methods in Problems of Wave Hydrodynamics, 95b:76003
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 (Thomas, N. H.) *see* Bubble dynamics and interface phenomena, 95j:76002
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 (Van Dyke, Milton) *see* Annual review of fluid mechanics, 95i:76001
 (Voke, Peter R.) *see* Direct and large-eddy simulation
 (Walker, J. D. A.) *see* Advances in analytical methods in modeling of aerodynamic flows, 95g:76003
 (Weatherill, Nigel P.) *see* Numerical grid generation in computational fluid dynamics and related fields, 95c:76002
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- Advances in analytical methods in modeling of aerodynamic flows ★ Advances in analytical methods in modeling of aerodynamic flows. 95g:76003
 Algorithmic trends in computational fluid dynamics ★ Algorithmic trends in computational fluid dynamics. 95d:76004

All-Union Conference:

Numerical Methods in Problems of Wave Hydrodynamics ★ Труды Всесоюзного Собрания по Численным Методам в Задачах Волновой Гидродинамики. (Russian) [Proceedings of the All-Union Conference on Numerical Methods in Problems of Wave Hydrodynamics] 95b:76003

Annual review of fluid mechanics ★ Annual review of fluid mechanics. Vol. 27. 95i:76001

Antibes-Juan les Pins ★ Numerical tools for scientific computation with applications to flow, turbulence and combustion. 95m:76002

Asymptotic methods in the theory of systems ★ Асимптотические методы в теории систем. (Russian) [Asymptotic methods in the theory of systems] 95b:76001

Barcelona ★ Finite elements in fluids. Part I, II. 95c:76001

— ★ Finite elements in fluids—new trends and applications. 95m:76001

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Bubble dynamics and interface phenomena ★ Bubble dynamics and interface phenomena. 95j:76002

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Numerical Grid Generation in Computational Fluid Dynamics and Related Fields ★ Numerical grid generation in computational fluid dynamics and related fields. 95c:76002

Numerical Methods for Fluid Dynamics ★ Numerical methods for fluid dynamics. 4. 95g:76005

Numerical Methods in Laminar and Turbulent Flow ★ Numerical methods in laminar and turbulent flow. Vol. VIII. Part 1, 2. 95c:76003

Numerical Tools for Scientific Computation with Applications to Flow, Turbulence and Combustion ★ Numerical tools for scientific computation with applications to flow, turbulence and combustion. 95m:76002

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Finite elements in fluids ★ Finite elements in fluids. Part I, II. 95c:76001

Finite elements in fluids—new trends and applications ★ Finite elements in fluids—new trends and applications. 95m:76001

Free boundaries in viscous flows ★ Free boundaries in viscous flows. 95c:76002

Guildford ★ Direct and large-eddy simulation. I.

ICOSAHOM'92 ★ ICOSAHOM'92. 95b:76002

IUTAM Symposium:

Bubble Dynamics and Interface Phenomena ★ Bubble dynamics and interface phenomena. 95j:76002

Nonlinear Instability of Nonparallel Flows ★ Nonlinear instability of nonparallel flows. 95j:76003

Miedzydroże ★ Advances in analytical methods in modeling of aerodynamic flows. 95g:76003

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Potsdam, NY ★ Nonlinear instability of nonparallel flows. 95j:76003

Proceedings:

All-Union Conference on Numerical Methods in Problems of Wave Hydrodynamics

★ Труды Всесоюзного Собрания по Численным Методам в Задачах Волновой Гидродинамики. (Russian) [Proceedings of the All-Union Conference on Numerical Methods in Problems of Wave Hydrodynamics] 95b:76003

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Rostov-on-Don ★ Труды Всесоюзного Собрания по Численным Методам в Задачах Волновой Гидродинамики. (Russian) [Proceedings of the All-Union Conference on Numerical Methods in Problems of Wave Hydrodynamics] 95b:76003

Special Issue:

Numerical methods in laminar and turbulent flows ★ Numerical methods in laminar and turbulent flows. Part I. 95g:76006

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— ★ Numerical grid generation in computational fluid dynamics and related fields. 95c:76002

Symposium:

Computational Structural Acoustics ★ Symposium on Computational Structural Acoustics.

Development of Turbulence and Statistical Laws ★ Ranyū no hassei to tōkei hōsoku. II. (Japanese) [The development of turbulence and statistical laws. II] 95g:76004

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Washington, DC ★ Symposium on Computational Structural Acoustics.

Workshop:

Advances in Analytical Methods in Modeling of Aerodynamic Flows ★ Advances in analytical methods in modeling of aerodynamic flows. 95g:76003

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Angelopoulos, Christos D. ★ Numerical methods in nonlinear dynamics. 95i:65160 — (with Angelopoulos, Vassilios D.) ★ Numerical methods in nonlinear dynamics. II. 95f:76061

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(Bernardi, Christine) see ICOSAHOM'92. 95b:65007

(Brandsma, Frans) see EUROVAL—an European initiative on validation of CFD codes, 95b:76056

(Brekhovskikh, L. M.) see Oceanic acoustics, 95b:76083

Chushkin, P. I. ★ Избранные статьи по вычислительной газовой динамике. Часть I, II. (Russian. Russian summary) [Selected papers in computational gas dynamics. Part I, II] 95c:01041

(Cohen, Gary) see Mathematical and numerical aspects of wave propagation, 95m:00022

(Cooke, L. Pamela) see Transonic aerodynamics, 95b:76052

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(Elsholz, Eberhard) see EUROVAL—an European initiative on validation of CFD codes, 95b:76056

(Friedlander, Susan) see Magnetohydrodynamic stability and dynamos, 95b:76095

(Galdi, Giovanni P.) see Mathematical problems for Navier-Stokes equations

(Haase, Werner) see EUROVAL—an European initiative on validation of CFD codes, 95b:76056

(Keppen, I. V.) see Elasticity and inelasticity, Part 2, 95i:73003

(King, D. A.) see Multiblock grid generation, 95a:76056

(Korotkina, M. P.) see Elasticity and inelasticity, Part 2, 95i:73003

(Leshchiner, Michael) see EUROVAL—an European initiative on validation of CFD codes, 95b:76056

(Lorenz, Jens) see Theory and numerical methods for initial-boundary value problems, 95f:65015

(Lysanov, Yu. P.) see Oceanic acoustics, 95b:76083

(Mada, Yvon) see ICOSAHOM'92. 95b:65007

(Marchant, Michael J.) see Multiblock grid generation, 95a:76056

(Miele, Angelo) see Applied mathematics in aerospace science and engineering, 95i:00024

(Naugolnykh, K. A.) see Nonlinear acoustics, 95c:76092

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76A15 Liquid crystals [see also 82D30]

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- Tso, Kaising Some constancy results for nematic liquid crystals and harmonic maps. (English and French summaries) 95m:58045
- Virga, Epifanio G. *see* Biscari, Paolo; et al., 95c:58056 and Capriz, Gianfranco, 95h:73017

76A99 None of the above, but in this section

- Damen, C. A. J. *see* Jongschaap, R. J. J.; et al., 95c:76008
- Franjone, J. G. (with Ottino, J. M.) Erratum: "Stretching in duct flows" [Phys. Fluids A 3 (1991), no. 11, 2819–2821; MR 92j:76006].
- Gardner, Carl L. (with Schaeffer, David G.) Numerical simulation of uniaxial compression of a granular material with wall friction. (English summary) 95g:76010
- de Haas, K. H. *see* Jongschaap, R. J. J.; et al., 95c:76008
- Habala, Petr Stationary incompressible bipolar fluids. (English summary) 95d:76008
- Ieşan, Dorin A theory of mixtures of nonsimple fluids. (English summary) 95c:76005
- Jongschaap, R. J. J. (with de Haas, K. H.; Damen, C. A. J.) A generic matrix representation of configuration tensor rheological models. (English summary) 95c:76008
- Makarenko, A. S. Mathematical modeling of the influence of memory effects on hydrodynamic processes. (Russian. English and Ukrainian summaries)
- Ottino, J. M. *see* Franjone, J. G.
- Schaeffer, David G. *see* Gardner, Carl L., 95g:76010

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- Alemasov, V. E. (with Brennerman, M. Kh.; Kessel', A. R.; Kravtsov, Ya. I.) A stochastic approach to the description of processes in "weakly" mixed multiphase media. The "wandering" wave model. (Russian)
- An, Lian Jun Variational formulation of steady flow in a hopper. (English summary) 95f:73036
- Antanovskii, L. K. A phase field model of capillarity. (English summary) 95k:76018
- Aris, Rutherford ★ Mathematical modelling techniques. (English summary) 95j:00009
- Bouchitté, Guy (with Seppecher, Pierre) Cahn and Hilliard fluid on an oscillating boundary. (English summary) 95g:76044
- Brennerman, M. Kh. *see* Alemasov, V. E.; et al.
- Carter, Brandon (with Khalatnikov, I. M.) Canonically covariant formulation of Landau's Newtonian superfluid dynamics. (English summary) 95b:82061
- Chugunov, V. A. *see* Tonkonog, S. L.; et al., 95i:86009
- Cimmelli, Vito Antonio (with Kosiński, Witold) Superfluidity and internal parameters in helium II. (English summary) (see 95j:00017)
- Dragăşin, Lucia Bifurcations in the behaviour of granular materials. (English summary) 95k:73044
- Ėskin, L. D. *see* Tonkonog, S. L.; et al., 95i:86009
- Fehribach, Joseph D. Mullins-Sekerka stability analysis for melting-freezing waves in helium. (English summary) 95a:80015
- Garaizar, Xabier Numerical computations for antiplane shear in a granular flow model. (English summary) 95c:73047
- Gavrilyuk, S. L. Large amplitude oscillations and their "thermodynamics" for continua with "memory". (English summary) 95j:76111
- Gidaspo, Dimitri ★ Multiphase flow and fluidization. (English summary) 95c:76109
- Goldstein, Raymond E. Nonlinear dynamics of pattern formation in physics and biology. (English summary) 95b:58141
- Helde, Paavo (with Kuusk, Piret) A simple mathematical model for nonrelativistic space-time. (English summary) 95h:83073
- Hutter, K. (with Rajagopal, K. R.) On flows of granular materials. (English summary) 95c:73041
- Ieşan, Dorin On the stability of motions of thermoelastic fluids. (English summary) 95f:76042

- Ionescu, Ioan R. (with Sofonea, Mircea) ★ Functional and numerical methods in viscoplasticity. 95c:73025

- Kessel', A. R. *see* Alemasov, V. E.; et al.
- Khalatnikov, I. M. *see* Carter, Brandon, 95b:82061
- Kosiński, Witold *see* Cimmelli, Vito Antonio, (95j:00017)
- Kravtsov, Ya. I. *see* Alemasov, V. E.; et al.
- Kuusk, Piret *see* Helde, Paavo, 95h:83073
- Lévy, Thérèse *see* Périn, Frédéric, 95d:73004
- Litvinov, V. G. Models for laminar and turbulent flows of viscous and nonlinear viscous fluids. 95d:76042
- Mohapatra, Ram Narayan *see* Vajravelu, K.; et al., 95c:34024
- Nayfeh, J. F. *see* Vajravelu, K.; et al., 95c:34024
- Périn, Frédéric (with Lévy, Thérèse) Application of the homogenization method to a suspension of fibres. (English summary) 95d:73004
- Rajagopal, K. R. *see* Hutter, K., 95c:73041
- Seppecher, Pierre *see* Bouchitté, Guy, 95g:76044
- Serre, Denis Entropie du mélange liquide-vapeur d'un fluide thermo-capillaire. (French summary) [Entropy of the liquid-vapor mixture of a thermocapillary fluid] 95k:76040
- Soewono, E. *see* Vajravelu, K.; et al., 95c:34024
- Sofonea, Mircea *see* Ionescu, Ioan R., 95c:73025
- Tonkonog, S. L. (with Chugunov, V. A.; Ėskin, L. D.) Group analysis methods in the problem of the spreading with slippage of a thin film of non-linearly viscous fluid. (Russian. Russian summary) 95i:86009
- Vajravelu, K. (with Soewono, E.; Mohapatra, Ram Narayan; Nayfeh, J. F.) Second-order nonlinear systems arising in convection flow of a micropolar fluid. 95c:34024
- Zapryanov, Zapryan Hydrodynamic interactions of rigid or fluid particles. (Bulgarian. English and Russian summaries) 95m:76035
- A dispersion equation in a wave regime for the drainage of thin fluid films taking into account the elastic properties of the interphase boundaries. (Bulgarian. English and Russian summaries) 95m:76036

76Bxx Incompressible inviscid fluids, potential theory

76B05 Airfoil theory

- Ahmadi, Ali R. (with Widnall, Sheila E.) Energetics of oscillating lifting surfaces by the use of integral conservation laws. (English summary) 95c:76009
- Aristova, E. Yu. (with Il'inskii, N. B.; Fokin, D. A.) A fast method for the design of airfoils with distributed suction.
- Avkhadiev, F. G. (with Maklakov, D. V.) A criterion for the solvability of the problem of constructing wing profiles based on a cavitation diagram. (Russian) 95k:76006
- Destuynder, Philippe (with Santi, Françoise) Liens entre la méthode des suivis de tourbillons et les coefficients des singularités au bord de fuite d'un profil aérodynamique. (English and French summaries) [Links between the vortex tracking method and the coefficients of the singularities near the trailing edge of an airfoil] 95j:76012
- Dinu, Adrian *see* Dragoş, Lazăr, 95m:76010
- Dragoş, Lazăr (with Dinu, Adrian) A direct boundary integral equations method to subsonic flow with circulation past thin airfoils in ground effect. (English summary) 95m:76010
- Efremov, I. I. (with Li Ir Chkhan) Irrotational lifting force of permeable airfoils. (Russian. Russian summary) 95d:76009
- Eyi, S. (with Hager, J. O.; Lee, Ki Dong) Airfoil design optimization using the Navier-Stokes equations. (English summary)
- Fokin, D. A. *see* Aristova, E. Yu.; et al.
- Gonor, A. L. Determination of the parameters of a plane flow of an incompressible fluid with small variation of the contour profile. (Russian. Russian summary) 95d:76010
- Hager, J. O. *see* Eyi, S.; et al.
- Il'inskii, N. B. *see* Aristova, E. Yu.; et al.
- Kotelkin, V. D. On the construction of aerodynamic airfoils. (Russian)
- Ladopoulos, E. G. Non-linear singular integral representation for unsteady inviscid flowfields of 2-D airfoils.
- Lee, Ki Dong *see* Eyi, S.; et al.
- Li Ir Chkhan *see* Efremov, I. I., 95d:76009
- Maklakov, D. V. *see* Avkhadiev, F. G., 95k:76006
- Murai, Takafumi Interference of two aeroplanes. 95d:76011
- Orlov, Yu. F. Approximate computation of the lift force of a wing near the supporting surface in the jet produced by a propulsive device. (Russian. Russian summary) (see 95b:76001)
- Santi, Françoise *see* Destuynder, Philippe, 95j:76012
- Widnall, Sheila E. *see* Ahmadi, Ali R., 95c:76009
- Yiu, K. F. C. Computational methods for aerodynamic shape design. (English summary)

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- Aso, Shigeru (with Hayashi, Masanori) Dynamic stall calculations by a discrete vortex method. (see 95i:00028)
- (Cook, L. Pamela) *see* Transonic aerodynamics, 95b:76052
- Dragoş, Lazăr A collocation method for the integration of Prandtl's equation.
- Elizarov, A. M. Models of fluid and gas mechanics in wing theory and the optimal control of aerodynamic forms. (Russian. Russian summary) 95b:76051
- Ershov, B. A. (with Strelkovskaya, I. I.) A mathematical model of a problem in hydroelasticity on the motion of two flexible profiles in an ideal incompressible fluid. I. (Russian. English and Russian summaries) 95b:73023
- Feistauer, Miloslav (with Hsiao, George C.; Kleinman, Ralph E.; Tezaur, R.) Analysis and numerical realization of coupled BEM and FEM for nonlinear exterior problems. (English summary) 95m:76045
- Fokin, D. A. *see* Il'inskii, N. B., 95b:76007
- Gaidenko, V. I. (with Lifanov, I. K.) On the mathematical model for nonlinear stationary aerodynamic problems. (English summary) 95f:76075

- Grzędziński, J. Flutter analysis of a two-dimensional airfoil with nonlinear springs based on center-manifold reduction. (English summary) **95k:73075**
- Hayashi, Masanori. *see* Aso, Shigeru, (95i:00028)
- Hsiao, George C. (with Marcozzi, Michael D.; Zhang, Shangyou) An efficient computational method for the flow past an airfoil. (English summary) (see 95i:65008)
- *see also* Feistauer, Miloslav; et al., 95m:76045
- I'inskii, N. B. (with Fokin, D. A.) Design of cavitationless hydrofoils based on the solution of a mixed inverse boundary value problem. (Russian. Russian summary) **95b:76007**
- Kleinman, Ralph E. *see* Feistauer, Miloslav; et al., 95m:76045
- Lifanov, I. K. *see* Gaidenko, V. I., 95f:76075
- Marcozzi, Michael D. *see* Hsiao, George C.; et al., (95i:65008)
- Monegato, Giovanni (with Prössdorf, Siegfried) Uniform convergence estimates for a collocation and a discrete collocation method for the generalized airfoil equation. (English summary) **95g:65183**
- Morino, L. Toward a unification of potential and viscous aerodynamics: boundary integral formulation. (English summary) **95j:76064**
- Nastase, A. The inviscid and viscous aerodynamic design. (see 95i:00028)
- Prössdorf, Siegfried *see* Monegato, Giovanni, 95g:65183
- Rusak, Z. Subsonic flow around the leading edge of a thin aerofoil with a parabolic nose. (English summary) **95i:76055**
- Shlaustas, R. Yu. A modified discrete vortex method in the theory of a solid profile in a bounded flow. (Russian. Russian summary) (see 95b:76001)
- Strelkovskaya, I. I. *see* Ershov, B. A., 95b:73023
- Tezaur, R. *see* Feistauer, Miloslav; et al., 95m:76045
- Zhang, Shangyou *see* Hsiao, George C.; et al., (95i:65008)
- Zhirov, V. S. Optimization of the mass of a wing. (Russian. Russian summary) **95f:76052**

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Transonic aerodynamics ★ Transonic aerodynamics. **95b:76052**

76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing

- Asavanant, J. (with Vanden-Broeck, J.-M.) Free-surface flows past a surface-piercing object of finite length. (English summary) **95d:76012**
- Blake, J. R. *see* Robinson, P. B., 95j:76017
- Chekin, B. S. Oblique entry of a thin wedge into an incompressible fluid. (Russian. Russian summary) **95f:76004**
- Dowling, A. P. Unsteady flow near a moving cylinder. (English summary) **95b:76004**
- Dun, C. R. (with Hocking, Graeme C.) Withdrawal of fluid through a line sink beneath a free surface above a sloping boundary. (English summary) **95i:76006**
- Fokin, D. A. *see* I'inskii, N. B., 95b:76007
- Galper, A. (with Miloh, T.) Self-propulsion of bubbles in a weakly nonuniform flow field. (English summary) **95j:76013**
- Hanna, Sarwat N. Influence of surface tension on free-surface flow over a polygonal and curved obstruction. (English summary) **95j:76014**
- Hocking, Graeme C. *see* Dun, C. R., 95i:76006
- Howells, I. D. (with Waechter, R. T.) Plane irrotational flow against a porous plate. (English summary) **95m:76011**
- Howison, S. D. (with Morgan, John David; Ockendon, J. R.) Patch cavitation in flow past a rigid body. (English summary) **95k:76007**
- I'inskii, N. B. (with Fokin, D. A.) Design of cavitationless hydrofoils based on the solution of a mixed inverse boundary value problem. (Russian. Russian summary) **95b:76007**
- Jenkins, Alastair D. A stationary potential-flow approximation for a breaking-wave crest. (English summary) **95b:76005**
- King, Andrew Charles Free surface flows induced by submerged sources. (English summary) **95k:76008**
- (with Needham, D. J.) The initial development of a jet caused by fluid, body and free-surface interaction. I. A uniformly accelerating plate. (English summary) **95a:76004**
- Liu, Yong Axially symmetric jet flows arising from high-speed fiber coating. **95e:76006**
- Longuet-Higgins, Michael S. Inertial shocks in surface waves and collapsing bubbles. (English summary) **95j:76015**
- Miloh, T. *see* Galper, A., 95j:76013
- Morgan, John David *see* Howison, S. D.; et al., 95k:76007
- Needham, D. J. *see* King, Andrew Charles, 95a:76004
- Ockendon, J. R. *see* Howison, S. D.; et al., 95k:76007
- Orlov, Yu. F. (with Tirsikh, V. V.) A linear problem on a contour penetrating the surface of a heavy fluid. (Russian. Russian summary) (see 95b:76001)
- Peregrine, D. H. (with Prentice, P. R.) Jet formation at a free surface. (English summary) **95j:76016**
- Prentice, P. R. *see* Peregrine, D. H., 95j:76016
- Robinson, P. B. (with Blake, J. R.) Dynamics of cavitation bubble interactions. (English summary) **95j:76017**
- Shaw, Stephen J. Surface mode deformations on an oscillating bubble. (English summary) **95j:76018**
- Stavre, Ruxandra Study of a jet incident on a porous wall in a gravity field. (English summary) **95b:76008**
- Sturova, I. V. A two-dimensional problem on the hydrodynamic rolling of a submerged body that moves forward in a two-layer fluid. (Russian) **95b:76006**
- Tirsikh, V. V. *see* Orlov, Yu. F., (95b:76001)
- Vanden-Broeck, J.-M. *see* Asavanant, J., 95d:76012
- Waechter, R. T. *see* Howells, I. D., 95m:76011
- Wang, Hong Zhen *see* Zhao, Jian; et al.
- Waterhouse, D. D. Resonant sloshing near a critical depth. (English summary) **95i:76007**
- Zhao, Jian (with Wang, Hong Zhen; Zhu, Wu Hua) An analysis of the accuracy of bubble dynamics equations. (Chinese. English and Chinese summaries)
- Zhu, Wu Hua *see* Zhao, Jian; et al.

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(Blake, J. R.) *see* Bubble dynamics and interface phenomena, 95j:76002

- (Boulton-Stone, J. M.) *see* Bubble dynamics and interface phenomena, 95j:76002
- Clariond, Nathalie (with Zolésio, Jean-Paul) Hydroelastic behavior of an inextensible membrane. (English summary) **95g:73041**
- Elhefnawy, Abdel Raouf F. (with Moatimid, Galal M.) The effect of an axial electric field on the stability of cylindrical flows in the presence of mass and heat transfer and absence of gravity. (English summary) **95i:76039**
- Ershov, B. A. (with Strelkovskaya, I. I.) A mathematical model of a problem in hydroelasticity on the motion of two flexible profiles in an ideal incompressible fluid. I. (Russian. English and Russian summaries) **95b:73023**
- Fitt, A. D. (with Wilmott, P.) A composite cavity model for axisymmetric high Reynolds number separated flow. II. Numerical analysis and results. (English summary) **95k:76037**
- Kameneva, S. A. Action of waves and flows on barriers. (Russian. Russian summary) (see 95b:76003)
- Killworth, Peter D. (with McDonald, N. Robb) Maximal reduced-gravity flux in rotating hydraulics. (English summary) **95k:76114**
- Matusov, P. A. (with Tsimring, L. Sh.) Propagation of the front of a parametrically excited capillary ripple. (Russian) (see 95i:00020)
- McDonald, N. Robb *see* Killworth, Peter D., 95k:76114
- Moatimid, Galal M. *see* Elhefnawy, Abdel Raouf F., 95i:76039
- Ostapenko, N. A. (with Romanchenko, V. I.; Yakunina, G. E.) Optimal shapes of three-dimensional bodies with maximum depth of penetration in dense media. (Russian) **95b:73035**
- Romanchenko, V. I. *see* Ostapenko, N. A.; et al., 95b:73035
- Strelkovskaya, I. I. *see* Ershov, B. A., 95b:73023
- (Thomas, N. H.) *see* Bubble dynamics and interface phenomena, 95j:76002
- Tsimring, L. Sh. *see* Matusov, P. A., (95i:00020)
- Wilmott, P. *see* Fitt, A. D., 95k:76037
- Yakunina, G. E. *see* Ostapenko, N. A.; et al., 95b:73035
- Zolésio, Jean-Paul *see* Clariond, Nathalie, 95g:73041

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Bubble dynamics and interface phenomena ★ Bubble dynamics and interface phenomena. **95j:76002**

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Bubble Dynamics and Interface Phenomena ★ Bubble dynamics and interface phenomena. **95j:76002**

76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction [see also 35Q53]

- Akylas, T. R. Three-dimensional long water-wave phenomena. **95c:76010**
- Aleshkov, Yu. Z. Mathematical modeling of the processes of generation, propagation and force interaction of waves with marine hydraulic engineering structures. (Russian. Russian summary) (see 95b:76003)
- Propagation of internal waves in an ocean. (Russian. English and Russian summaries) **95k:76009**
- Aranha, J. A. P. A formula for "wave damping" in the drift of a floating body. (English summary) **95b:76009**
- Bassanini, Piero (with Bulgarelli, Ulderico; Campana, Emilio; Lalli, Francesco) The wave resistance problem in a boundary integral formulation. (English summary) **95b:76007**
- Basu, Uma (with Salam, M. A.) Forced internal capillary-gravity wave. (English summary) **95k:76010**
- *see also* Mandal, Samiran, 95i:76010
- Bhatta, D. D. (with Rahman, Matir) Wave loadings on a vertical cylinder due to heave motion. (English summary) **95b:76008**
- Blondeaux, Paolo (with Seminara, Giovanni; Vittori, Giovanna) Linear response of the gate system for protection of the Venice Lagoon. I. Transverse free modes. (English and Italian summaries) **95a:76005**
- (with Seminara, Giovanni; Vittori, Giovanna) Linear response of the gate system for protection of the Venice Lagoon. II. Excitation of transverse subharmonic modes. (English and Italian summaries) **95a:76006**
- Borisov, Anatoli A. (with Khabakhpashev, G. A.) Approximate models describing weakly nonlinear surface waves. (Russian)
- Bridges, Thomas J. *see* Dias, Frédéric, 95k:76012
- Bryant, Peter John (with Stiassnie, Michael) Different forms for nonlinear standing waves in deep water. (English summary) **95d:76013**
- Bulgarelli, Ulderico *see* Bassanini, Piero; et al., 95b:76007
- Campana, Emilio *see* Bassanini, Piero; et al., 95b:76007
- Capodanno, Pierre Existence des petites oscillations d'une colonne liquide dans un container de révolution en rotation en apesanteur. [Existence of small oscillations in a column of fluid in a container rotating in a weightless state] **95b:76009**
- de Castello-Branco, J. H. B. (with Fernandes, J. L. M.) Extensions of the shallow water wave equation for finite element computations. (English summary) (see 95c:76001)
- Chamberlain, P. G. Symmetry relations and decomposition for the mild-slope equation. (English summary) **95k:76011**
- Chen, Yao Song (with Jiang, Tao) The initial flow state of a broken dam. (English summary) **95b:76010**
- Chen, Yong Ze (with Liu, Philip L.-F.) Modified Boussinesq equations and associated parabolic models for water wave propagation. (English summary) **95m:76012**
- (with Liu, Philip L.-F.) The unified Kadomtsev-Petviashvili equation for interfacial waves. (English summary) **95m:76013**
- Choi, J. W. (with Sun, S. M.; Shen, Mei Chang) Steady capillary-gravity waves on the interface of a two-layer fluid over an obstruction-forced modified K-dV equation. (English summary) **95k:76014**
- Christodoulides, P. (with Dias, Frédéric) Resonant capillary-gravity interfacial waves. (English summary) **95b:76010**
- Cointe, Raymond (with Tulin, Marshall P.) A theory of steady breakers. (English summary)

- Craig, Walter (with Groves, Mark D.) Hamiltonian long-wave approximations to the water-wave problem. (English summary) **95h:76008**
- Creamer, Dennis B. *see* Wright, Jon, **95a:76012**
- Croft, A. J. (with Sajjadi, S. G.) A mechanism for transferring energy from wind to Stokes wave. (English summary) **95e:76007**
- Debnath, Lokenath ★ Nonlinear water waves. **95c:76011**
- Dias, Frédéric (with Bridges, Thomas J.) Geometric aspects of spatially periodic interfacial waves. (English summary) **95h:76012**
- *see also* Christodoulides, P., **95b:76010**
- D'yachenko, A. I. (with Zakharov, V. E.) Is free-surface hydrodynamics an integrable system? (English summary) **95h:76010**
- Easson, W. J. *see* Shen, I-Fan; et al.
- Evans, D. V. (with Linton, C. M.) On step approximations for water-wave problems. (English summary) **95g:76011**
- Evans, W. A. B. *see* Shen, I-Fan; et al.
- Faltas, M. S. *see* Gorgui, M. A.
- Fernandes, J. L. M. *see* de Castello-Branco, J. H. B., (**95c:76001**)
- Frank, A. M. A discrete nonlinear-dispersion model of shallow water. (Russian) **95c:76012**
- Funakoshi, Mitsuaki Steady trapped solutions to forced long-short interaction equation. **95d:76015**
- Gorgui, M. A. (with Faltas, M. S.) Forced surface waves in the presence of finite cylindrical porous walls. (English summary)
- Greatet, C. A. *see* Shen, I-Fan; et al.
- Groves, Mark D. Hamiltonian long-wave theory for water waves in a channel. (English summary) **95h:76009**
- *see also* Craig, Walter, **95h:76008**
- Hou, Yi Yun (with Li, Wei) Nonlinear gravity waves in deep water. (English summary) **95k:76013**
- Jeffrey, Alan Some observations on the KP equation. (English summary) **95k:76014**
- Jiang, Tao *see* Chen, Yao Song
- Jones, Mark Christopher Wynne On the stability of finite-depth capillary-gravity waves by means of the fourth order evolution equation. (English summary) **95k:76015**
- Further results on the stability of symmetric and asymmetric resonant capillary-gravity waves. (English summary) **95h:76011**
- Kalmykov, V. A. *see* Krasitskii, V. P., **95b:76011**
- Kamenova, S. A. Action of waves and flows on barriers. (Russian. Russian summary) (*see* **95b:76003**)
- Keavorkian, J. *see* Yu, Jun², **95c:76014**
- Khbabkhashvili, G. A. *see* Borisov, Anatolii A. I.
- Knobloch, Edgar *see* Pierce, R. D., **95a:76008** and **95a:76009**
- Kolaini, Ali R. *see* Yao, Yitao; et al.
- Krasitskii, V. P. (with Kalmykov, V. A.) Four-wave reduced equations for surface gravity waves. (Russian) **95b:76011**
- On reduced equations in the Hamiltonian theory of weakly nonlinear surface waves. (English summary) **95d:76016**
- Kuznetsov, N. G. Wave formation in the motion of a cylinder that is partially immersed in a fluid of infinite depth. (Russian. Russian summary) **95c:76013**
- Trapped modes of surface and internal waves in a channel occupied by a two-layer fluid. (English summary) (*see* **95m:00022**)
- Lalli, Francesco *see* Bassanini, Piero; et al., **95h:76007**
- Li, Wei *see* Hou, Yi Yun, **95k:76013**
- Linton, C. M. *see* Evans, D. V., **95g:76011**
- Liu, Philip L.-F. *see* Yoon, Sung B., **95h:76015**; Chen, Yong Ze, **95m:76012** and **95m:76013**
- Mallier, Roland (with Maslowe, S. A.) Fully coupled resonant-triad interactions in a free shear layer. (English summary) **95i:76009**
- Mandal, Samiran (with Basu, Uma) Reflection of internal waves by sand ripples. (English summary) **95i:76010**
- Martin, Paul Andrew *see* Parsons, Neil F., **95j:76019**
- Maslowe, S. A. *see* Mallier, Roland, **95i:76009**
- Mayil Vaganan, B. *see* Sachdev, P. L., **95f:76006**
- Mei, Chiang C. *see* Naciri, Mamoun, **95h:76012** and Sammarco, Paolo; et al., **95h:76013**
- Messiter, A. F. *see* Woodruff, S. L., **95a:76011**
- Miles, J. W. Faraday waves: rolls versus squares. (English summary) **95d:76017**
- Corrigendum: "On Faraday waves" [J. Fluid Mech. **248** (1993), 671–683; MR **94f:76005**].
- Milgram, J. H. *see* Olmez, H. S.
- Moussa, Nabil Permanent heavy waves in circular-shaped channels. (English summary) **95m:76014**
- Nachbin, André (with Papanicolaou, George C.) Water waves in disordered media. (English and Portuguese summaries) **95m:76015**
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- (with Bridges, Thomas J.) Geometric aspects of spatially periodic interfacial waves. (English summary) **95k:76012**
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- Hanna, Sarwat N.** Influence of surface tension on free-surface flow over a polygonal and curved obstruction. (English summary) **95j:76014**
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- Moroşanu, Gheorghe** (with Corduneanu, Adrian) An integro-differential equation from the capillarity theory.
- Okamoto, Hisashi** (with Shōji, Mayumi) Remarks on the bifurcation of two-dimensional capillary-gravity waves of finite depth. (English summary) **95i:76011**
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76D08 Lubrication theory

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Boukrouche, Mahdi (with Bayada, Guy) The characteristics method to solve a stationary semi-coercive free boundary problem of hydrodynamic lubrication with cavitation and subject to an integral condition. 95f:76024

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— see also Terrill, E. L., 95i:76032

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76D10 Boundary-layer theory

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Bowles, R. G. A. see Smith, Frank T.; et al., 95c:76026

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Choudhari, Meelan (with Hall, Philip²; Streett, Craig) On spatial evolution of long-wavelength Görtler vortices governed by a viscous-inviscid interaction. I. The linear case. (English summary) 95h:76037

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- Smith, Frank T. (with Stewart, P. A.; Bowles, R. G. A.) On the nonlinear growth of single three-dimensional disturbances in boundary layers. (English summary) **95e:76026**
 — see also Hoyle, J. M., **95j:76034**
- Smith, Ronald How far can a boundary coating material be carried downstream in turbulent pipe flow? (English summary) **95j:76025**
- Smith, S. H. A note on the boundary layer approach to the impulsively started flow past a flat plate. (English summary) **95k:76034**
- Stewart, P. A. see Smith, Frank T.; et al., **95e:76026**
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- Bogolepov, V. V. Nonlinear evolution of Görtler vortices in the near-wall part of a boundary layer. (Russian. Russian summary) **95b:76038**
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- Bun, Y. (with Criminale, W. O.) Early-period dynamics of an incompressible mixing layer. (English summary) **95h:76063**
- Coller, B. D. (with Holmes, Philip J.; Lumley, John L.) Control of noisy heteroclinic cycles. (English summary) **95j:76051**
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- Dennis, S. C. R. see D'Alessio, S. J. D., **95a:76069**
- Dodia, B. T. see Smith, Frank T.; et al., **95a:76049**
- Goldstein, M. E. Nonlinear interactions between oblique instability waves on nearly parallel shear flows. (English summary) **95k:76058**
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- Gupta, Ramesh C. Developing Bingham fluid flow in a channel. (English summary) **95m:76005**
- Haj-Hariri, Hossein Characteristics analysis of the parabolized stability equations. (English summary) **95h:76065**
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- Ida, M. P. (with Miksis, Michael J.) Dynamics of a lamella in a capillary tube. (English summary) **95j:76108**
- Jackson, T. L. see Criminale, W. O.; et al., **95d:76052**
- Kelly, Robert Edward Thermal convection in fluid layers with nonuniform thickness or surface temperature. (English summary) (see **95j:76003**)
- Khokhlov, A. P. On the theory of resonance interaction of Tollmien-Schlichting waves. (Russian) **95c:76035**
 — see also Zhuk, V. I., **95c:76036**
- Kirschvink, Stephen J. Shock layer behavior for vector boundary value problems and kinks in the lower and upper solutions. (English summary) **95d:34091**
- Korolev, G. L. (with Sychëv, Vik. V.) Asymptotic theory of the flow near the rear end of a slender axisymmetric body. (Russian. Russian summary) **95g:76017**
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- Liu, Chao Qun see Liu, Zhining, **95d:76075**
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- Loitsyanskii, L. G. Application of the generalized similarity method to the calculation of the turbulent boundary layer. (Russian. Russian summary) **95k:76075**
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- Luchini, P. Asymptotic analysis of laminar boundary-layer flow over finely grooved surfaces. (English summary) **95m:76029**
- Lumley, John L. see Coller, B. D.; et al., **95j:76051**
- Merkin, J. H. A note on the similarity equations arising in free convection boundary layers with blowing and suction. (English summary) **95a:76086**
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- Ryzhov, O. S. The development of nonlinear oscillations in a boundary layer and the onset of random disturbances. (English summary) **95k:76060**
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- Saric, William S. Görtler vortices. **95a:76035**
- Savenkov, I. V. Suppression of the growth of nonlinear wave packets by surface elasticity. (Russian. Russian summary) **95m:76030**
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- Smith, Frank T. (with Dodia, B. T.; Bowles, R. G. A.) On global and internal dynamics of spots: a theoretical approach. (English summary) **95a:76049**
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- Sod, Gary A. A random element method for a thermal boundary layer. (English summary) **95i:76072**
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- Sychëv, Vik. V. see Korolev, G. L., **95g:76017**
- Terent'ev, E. D. see Zhuk, V. I., **95c:76036**
- Tersenov, A. S. Generalized solution of the problem of the continuation of a nonstationary boundary layer with a constant rate of external flow. (Russian. English and Russian summaries) **95i:35233**
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- Vabishchevich, P. N. Numerical modeling of nonstationary convective-diffusion processes in a counterflow. (Russian. Russian summary) **95m:76064**
- Varley, Eric (with Seymour, Brian R.) Applications of exact solutions to the Navier-Stokes equations: free shear layers. (English summary) **95f:76020**
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- Zhuk, V. I. (with Terent'ev, E. D.) An opinion on a modified version of A. P. Khokhlov's paper "On the theory of resonance interaction of Tollmien-Schlichting waves". (Russian) **95c:76036**

76D15 Boundary-layer separation and reattachment

- Bowles, Robert I. see Walton, A. G.; et al., **95j:76036**
- Daniels, Peter George see Ratnanather, J. T., **95j:76026**
- Hall, Philip² On the initial stages of vortex wave interactions in highly curved boundary layer flows. (English summary) **95g:76016**
- Kerimbekov, R. M. (with Ruban, A. I.; Walker, J. D. A.) Hypersonic boundary-layer separation on a cold wall. (English summary) **95f:76027**
- Ratnanather, J. T. (with Daniels, Peter George) Solution of the thermal boundary layer equations in regions of flow reversal. (English summary) **95j:76026**
- Ruban, A. I. see Kerimbekov, R. M.; et al., **95f:76027**
- Smith, Frank T. see Vickers, I. P., **95e:76027** and Walton, A. G.; et al., **95j:76036**
- Vickers, I. P. (with Smith, Frank T.) Theory and computations for breakup of unsteady subsonic or supersonic separating flows. (English summary) **95e:76027**
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- Bowles, R. G. A. see Smith, Frank T.; et al., **95a:76026**
- Brons, Morten Topological fluid dynamics of interfacial flows. (English summary) **95e:76017**
- Cortelezzi, L. On the unsteady separated flow past a semi-infinite plate: exact solution of the Brown and Michael model, scaling, and universality. (English summary) **95k:76023**
- Davis, D. A. R. (with Smith, Frank T.) Influence of cross-flow on nonlinear Tollmien-Schlichting/vortex interaction. (English summary) **95f:76033**
- Fitt, A. D. (with Wilmott, P.) A composite cavity model for axisymmetric high Reynolds number separated flow. II. Numerical analysis and results. (English summary) **95k:76037**
- Ghia, K. N. (with Yang, J.; Ghia, U.; Osswald, G. A.) Analysis and control of dynamic stall phenomenon using Navier-Stokes formulation involving vorticity, stream function and circulation. (English summary) **95a:76051**
- Ghia, U. see Ghia, K. N.; et al., **95a:76051**
- Hayashi, Masanori see Aso, Shigeru, **(95i:00028)**
- Hoyle, J. M. (with Smith, Frank T.) On finite-time break-up in three-dimensional unsteady interacting boundary layers. (English summary) **95j:76034**
- Osswald, G. A. see Ghia, K. N.; et al., **95a:76051**
- Smith, Frank T. (with Stewart, P. A.; Bowles, R. G. A.) On the nonlinear growth of single three-dimensional disturbances in boundary layers. (English summary) **95e:76026**
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- Stewart, P. A. see Smith, Frank T.; et al., **95e:76026**
- Wilmott, P. see Fitt, A. D., **95k:76037**
- Yang, J. see Ghia, K. N.; et al., **95a:76051**

76D20 Higher-order effects in boundary layers

- Korolev, G. L. (with Sychëv, Vik. V.) Asymptotic theory of the flow near the rear end of a slender axisymmetric body. (Russian. Russian summary) **95g:76017**
- Sychëv, Vik. V. see Korolev, G. L., **95g:76017**

76D25 Wakes and jets

- Albarède, Pierre (with Provansal, Michel) Quasi-periodic cylinder wakes and the Ginzburg-Landau model. (English summary) 95k:76037
- Broze, George (with Hussain, Fazle) Nonlinear dynamics of forced transitional jets: temporal attractors and transitions to chaos. (English summary) (see 95j:76003)
- Churilov, S. M. (with Shukhman, I. G.) Nonlinear spatial evolution of helical disturbances to an axial jet. (English summary) 95k:76035
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- Fitt, A. D. (with Wilmott, P.) A composite cavity model for axisymmetric high Reynolds number separated flow. II. Numerical analysis and results. (English summary) 95k:76037
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- Hultgren, Lennart S. see Goldstein, M. E., 95k:76036
- Hussain, Fazle see Broze, George, (95j:76003)
- Lawrence, Christopher J. (with Mei, Renwei) Long-time behaviour of the drag on a body in impulsive motion. (English summary) 95j:76037
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- Banks, W. H. H. see Drazin, P. G.; et al., 95k:76045
- Bechtel, S. E. (with Bolinger, K. D.; Cao, J. Z.; Forest, M. Gregory) Torsional effects in high-order viscoelastic thin-film models. (English summary) 95j:76008
- Bolinger, K. D. see Bechtel, S. E.; et al., 95j:76008
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- Dewynne, J. N. (with Howell, P. D.; Wilmott, P.) Slender viscous fibres with inertia and gravity. (English summary) 95j:76030
- Dolzhamskii, F. V. (with Manin, D. Yu.) Stability of quasi-two-dimensional shear and jet flows of a rotating fluid. (Russian) (see 95i:00020)
- Drazin, P. G. (with Banks, W. H. H.; Zaturka, M. B.) The instability of Long's vortex. (English summary) 95k:76045
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- Forest, M. Gregory (with Wang, Qi) Dynamics of slender viscoelastic free jets. (English summary) 95j:76006
- see also Bechtel, S. E.; et al., 95j:76008
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- Lupu, Mircea Sur l'utilisation des fonctions analytiques généralisées dans l'étude des jets fluides axial-symétriques incompressibles. [Using generalized analytic functions to study incompressible axisymmetric fluid jets] (see 95b:30002)
- Manin, D. Yu. see Dolzhamskii, F. V., (95i:00020)
- Mestel, A. J. Electrohydrodynamic stability of a slightly viscous jet. (English summary) 95g:76022
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- Voropayev, S. I. (with Afanasyev, Ya. D.) ★ Vortex structures in a stratified fluid. 95j:76122
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76D30 Singular perturbation problems

- Luchini, P. Asymptotic analysis of laminar boundary-layer flow over finely grooved surfaces. (English summary) 95m:76029
- Van Dyke, Milton Slow variations in fluid mechanics. (English summary) 95j:76038

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- Cotsiolis, Athanase (with Oskolkov, A. P.) Initial-boundary value problems for equations of weakly compressible Jeffreys-Oldroyd fluids. (Russian. Russian summary) 95b:76006
- Guermont, Jean-Luc Perturbations singulières des problèmes de point selle et préconditionnement du problème de Stokes. (English and French summaries) [Singular perturbations of saddle-point problems and preconditioning of the Stokes problem] 95c:76022
- Hegarty, Alan F. (with Miller, John J. H.; O'Riordan, Eugene; Shishkin, G. I.) Special meshes for finite difference approximations to an advection-diffusion equation with parabolic layers. (English summary) 95k:76084
- Lu, Chunqing see MacGillivray, A. Dean, 95b:34081
- MacGillivray, A. Dean (with Lu, Chunqing) Asymptotic solution of a laminar flow in a porous channel with large suction: a nonlinear turning point problem. (English summary) 95b:34081
- Miller, John J. H. see Hegarty, Alan F.; et al., 95k:76084
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- Oskolkov, A. P. Some semilinear dissipative systems of equations with a small parameter that arise in the numerical solution of Navier-Stokes equations, equations of motion of Oldroyd fluids and equations of motion of Kelvin-Voigt fluids. (Russian. English and Russian summaries) 95b:76005
- see also Cotsiolis, Athanase, 95b:76006

- Paľtsev, B. V. Rapidly convergent iterative methods with incomplete splitting of boundary conditions for a multidimensional singularly perturbed system of Stokes type. (Russian. Russian summary) 95a:65177
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- Stynes, Martin (with Tobiska, Lutz) Necessary L^2 -uniform convergence conditions for difference schemes for two-dimensional convection-diffusion problems. (English summary) 95m:65197
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- Van Dyke, Milton Nineteenth-century roots of the boundary-layer idea. (English summary) 95c:76001

76D33 Waves

- Bouruet-Aubertot, Pascale (with Sommeria, J.; Staquet, C.) Breaking of standing internal gravity waves through two-dimensional instabilities. (English summary) 95j:76039
- Chomaz, Jean-Marc see Pouliquen, Olivier; et al., 95a:76025
- Henderson, D. M. (with Miles, J. W.) Surface-wave damping in a circular cylinder with a fixed contact line. (English summary) 95f:76028
- Huerre, Patrick see Pouliquen, Olivier; et al., 95a:76025
- Kamenov, O. Cnoidal waves in the Kuramoto-Sivashinski's [Sivashinsky] equation. (English summary) 95b:76024
- Kirchgässner, Klaus Struktur nichtlinearer Wellen—ein Modell für den Übergang zum Chaos. [Structure of nonlinear waves—a model for the transition to chaos] 95k:76038
- Miles, J. W. see Henderson, D. M., 95f:76028
- Pouliquen, Olivier (with Chomaz, Jean-Marc; Huerre, Patrick) Propagating Holmboe waves at the interface between two immiscible fluids. (English summary) 95a:76025
- Savenkov, I. V. Suppression of the growth of nonlinear wave packets by surface elasticity. (Russian. Russian summary) 95m:76030
- Sommeria, J. see Bouruet-Aubertot, Pascale; et al., 95j:76039
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- Akrivis, Georgios D. (with Dougalis, Vassilios A.; Kampanis, Nikolaos A.) Error estimates for finite element methods for a wide-angle parabolic equation. (English summary) 95k:65092
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- Congress:
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- Mathematical and numerical aspects of wave propagation ★ Mathematical and numerical aspects of wave propagation. **95m:00022**
- Oceanography and acoustics ★ Oceanography and acoustics. **95a:86001**
- Symposium:
Computational Structural Acoustics ★ Symposium on Computational Structural Acoustics.
Washington, DC ★ Symposium on Computational Structural Acoustics.

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- Cui, Ming Gen** see Zhang, Chi Ping
- Dykhne, A. M.** (with Isichenko, M. B.; Horton, Claude Wendell, Jr.) Diffusion in laminar Rayleigh-Bénard convection: boundary layers versus boundary tubes. (English summary) **95b:76084**
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- Wu, Wei¹ Galerkin methods for elliptic and parabolic convection-diffusion problems. (English summary) **95e:65193**
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- D'Alessio, S. J. D. (with Dennis, S. C. R.) Steady laminar forced convection from an elliptic cylinder. (English summary)
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- Gorbatenko, M. I. Solvability of a plane problem of mixed convection in an infinite layer of fluid. (Russian. English and Russian summaries) **95e:76100**
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- Hishida, Toshiaki Asymptotic behavior and stability of solutions to the exterior convection problem. **95d:76108**
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- Franchi, Franca Stabilization estimates for penetrative motions in porous media. (English summary) **95d:76114**
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- Kraenkel, R. A. (with Kurbart, S. M.; Pereira, J. G.; Manna, M. A.) Boussinesq-type system of equations in the Bénard-Marangoni system. (English and Russian summaries) **95i:35253**
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- (with Soewono, E.; Mohapatra, Ram Narayan; Nayfeh, J. F.) Second-order nonlinear systems arising in convection flow of a micropolar fluid. **95e:34024**
- Wollkind, David J. (with Zhang, Limin) The effect of suspended particles on Rayleigh-Bénard convection. I. A nonlinear stability analysis of a thermal equilibrium model. (English summary) **95c:76042a**
- (with Zhang, Limin) The effect of suspended particles on Rayleigh-Bénard convection. II. A nonlinear stability analysis of a thermal disequilibrium model. (English summary) **95c:76042b**
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- Pukhnachev, V. V. A model of convective motion under a small force of gravity. (Russian. Russian summary) **95b:76085**
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- Thess, A. (with Orszag, Steven A.) Surface-tension-driven Bénard convection at infinite Prandtl number. (English summary) **95i:76097**
- Vajravelu, K. Free convective flow of an electrically conducting fluid at a stretching sheet. (English summary) **95f:76097**
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- Lapko, S. L. (with Rashid, A. N.) Difference schemes for the problem of thermal convection in vortex-stream function variables. (Russian. English and Russian summaries)
- Lenferink, H. W. J. An accurate solution procedure for fluid flow with natural convection. (English summary) **95j:76068**
- Le Queere, P. An improved Chebyshev collocation algorithm for direct simulation of 2D turbulent convection in differentially heated cavities. (English summary) **95d:76093**
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- Siggia, Eric D. High Rayleigh number convection. **95c:76041**
- Sod, Gary A. A random element method for a thermal boundary layer. (English summary) **95i:76072**
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- Mauri, Roberto** Lagrangian self-diffusion of Brownian particles in periodic flow fields. (English summary) **95f:76098**
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- Mercer, G. N.** (with Roberts, A. J.) A complete model of shear dispersion in pipes. (English summary) **95h:76103**
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- Sun, S. M. (with Shen, Mei Chang) Existence of solitary pressure pulses in a cylindrical fluid-filled elastic tube. (English summary) 95m:73049
- Weinbaum, S. *see* Zeng, Yu². 95k:76033
- Zeng, Yu² (with Weinbaum, S.) Stokes problems for moving half-planes. (English summary) 95k:76033

76Z10 Biopropulsion in water and in air

- Jones, Mark Stephen (with Le Baron, L.; Pedley, T. J.) Biflagellate gyrotaxis in a shear flow. (English summary) 95i:76116
- Le Baron, L. *see* Jones, Mark Stephen; et al. 95i:76116
- Pedley, T. J. *see* Jones, Mark Stephen; et al. 95i:76116
- Items with secondary classifications in 76Z10
- Savenkov, I. V. Suppression of the growth of nonlinear wave packets by surface elasticity. (Russian. Russian summary) 95m:76030
- Smith, David Aitchison Flow in a contractile tube as a model for plasmodial streaming. (English summary)

76Z99 None of the above, but in this section

Items with secondary classifications in 76Z99

- Kleiber, Michal *see* Kowalczyk, Piotr. 95c:73068
- Kowalczyk, Piotr (with Kleiber, Michal) Modelling and numerical analysis of stresses and strains in the human lung including tissue-gas interaction. (English summary) 95c:73068
- Provost, Alden M. (with Schwarz, William H.) A theoretical study of viscous effects in peristaltic pumping. (English summary) 95h:76043
- Schwarz, William H. *see* Provost, Alden M. 95h:76043

78-XX Optics, electromagnetic theory {For quantum optics, see 81V80.}

78-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Burch, J. M. *see* Gerrard, A. 95h:78001
- Dudley, Donald G. ★ Mathematical foundations for electromagnetic theory. 95g:78001
- Gerrard, A. (with Burch, J. M.) ★ Introduction to matrix methods in optics. (English summary) 95h:78001
- Kumagai, Nobuaki *see* Morita, Nagayoshi; et al. 95a:78001
- Mautz, Joseph R. *see* Morita, Nagayoshi; et al. 95a:78001
- Morita, Nagayoshi (with Kumagai, Nobuaki; Mautz, Joseph R.) ★ Integral equation methods for electromagnetics. 95a:78001
- Scharf, Günter ★ From electrostatics to optics. (English summary) 95e:78001
- Items with secondary classifications in 78-01
- Akhiezer, A. I. (with Shul'ga, N. F.) ★ Электродинамика высоких энергий в веществе. (Russian) [High-energy electrodynamics in matter] 95c:81249
- Honerkamp, Josef (with Römer, Hartmann) ★ Theoretical physics. (English summary) 95m:00008
- Landau, L. D. (with Lifshits, E. M.) ★ Теоретическая физика. Том VIII. (Russian. Russian summary) [Theoretical physics. Vol. VIII] 95m:00001
- Lifshits, E. M. *see* Landau, L. D. 95m:00001
- (Pitaevskii, L. P.) *see* Landau, L. D. 95m:00001
- (Pollack, H.) *see* Honerkamp, Josef. 95m:00008
- Römer, Hartmann *see* Honerkamp, Josef. 95m:00008
- Shul'ga, N. F. *see* Akhiezer, A. I. 95c:81249

78-02 Research exposition (monographs, survey articles)

Items with secondary classifications in 78-02

- (Claret, Philippe G.) *see* Jouve, F., 95f:92004
 (Hanna, K.) *see* Jouve, F., 95f:92004
 Il'inskiĭ, A. S. (with Slepyan, G. Ya.; Slepyan, A. Ya.) ★ Propagation, scattering and dissipation of electromagnetic waves. 95h:78017
 Jouve, F. ★ Modélisation de l'œil en élasticité non linéaire. (French) [Modeling the eye in nonlinear elasticity] 95f:92004
 Kornyshev, A. A. *see* Vorotyntsev, M. A., 95h:78020
 Remoissenet, M. ★ Waves called solitons. (English summary) 95j:35002
 Slepyan, A. Ya. *see* Il'inskiĭ, A. S.; et al., 95h:78017
 Slepyan, G. Ya. *see* Il'inskiĭ, A. S.; et al., 95h:78017
 Vorotyntsev, M. A. (with Kornyshev, A. A.) ★ Электростатика сред с пространственной дисперсией. (Russian. English and Russian summaries) [Electrostatics of media with spatial dispersion] 95h:78020
 (Waring, G.) *see* Jouve, F., 95f:92004

78-03 Historical (must also be assigned at least one classification number from Section 01)

- Darrigol, Olivier The electrodynamics of moving bodies from Faraday to Hertz. 95i:78001
 Doncel, Manuel G. *see* Romo, José, 95h:78002
 Hong, Sungook Controversy over Voltaic contact phenomena, 1862-1900.
 Romo, José (with Doncel, Manuel G.) Faraday's initial mistake concerning the direction of induced currents, and the manuscript of Series I of his researches. 95h:78002
 Shama, Uma Y. *see* Spencer, Domina Eberle, (95a:00023)
 Spencer, Domina Eberle (with Shama, Uma Y.) The history of the mathematical representation of electromagnetic theory. (see 95a:00023)
 (Svitashev, K. K.) *see* Selected works of the classical scholars in physical optics, 95c:78001

Items listed otherwise than by author

- Selected works of the classical scholars in physical optics ★ Избранные труды классиков физической оптики. (Russian) [Selected works of the classical scholars in physical optics] 95c:78001

Items with secondary classifications in 78-03

- Anderson, Ronald The Whewell-Faraday exchange on the application of the concepts of momentum and inertia to electromagnetic phenomena. 95i:01007
 Berry, Michael Victor Pancharatnam, virtuoso of the Poincaré sphere: an appreciation.
 D'Agostino, Salvo Hertz's researches and their place in nineteenth century theoretical physics. 95b:01008
 Ellison, W. J. The birth of Maxwell's electromagnetic field equations. 95i:01008
 (Faraday, Michael) *see* Anderson, Ronald, 95i:01007
 Hochstadt, Harry Wilhelm Magnus, applied mathematician. (see 95c:20003)
 (Magnus, Wilhelm) *see* Hochstadt, Harry, (95c:20003)
 Nityananda, Rajaram Pancharatnam's route to the geometric phase. (English summary) (Pancharatnam, S.) *see* Berry, Michael Victor and Nityananda, Rajaram
 (Whewell, William) *see* Anderson, Ronald, 95i:01007
 Wilkes, J. M. *see* Zund, J. D., 95j:78015
 Zund, J. D. (with Wilkes, J. M.) Bromwich's method for solving the source-free Maxwell equations. 95j:78015

78-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 78-04

- Akishin, P. G. ★ Об одном методе расчета торональных магнитов. (Russian. English and Russian summaries) [On a method for computing toroidal magnets]
 Antimirov, Maximilian Ya. (with Kolyshekin, A. A.; Vaillancourt, Rémi) Analytical solution to the direct unsymmetric eddy current testing problem for a symmetric flaw. (English and French summaries) 95b:78023
 Dmitriev, Vladimir Ivanovich (with Falaleev, S. P.) The method of three-dimensional potentials in the problem of modeling electromagnetic fields in quasi-stratified media. (Russian. Russian summary) 95b:78013
 Falaleev, S. P. *see* Dmitriev, Vladimir Ivanovich, 95b:78013
 Fitzgerald, Rosa M. (with Maradudin, Alexei A.) A reciprocal phase-perturbation theory for rough-surface scattering. (English summary) 95c:78009
 Kolyshekin, A. A. *see* Antimirov, Maximilian Ya.; et al., 95b:78023
 Maradudin, Alexei A. *see* Fitzgerald, Rosa M., 95c:78009
 Vaillancourt, Rémi *see* Antimirov, Maximilian Ya.; et al., 95b:78023
 Yudin, A. N. ★ Алгоритмы интерполяции и экстраполяции потенциала и его производных в трехмерной области. (Russian. English and Russian summaries) [Algorithms for the interpolation and extrapolation of the potential and its derivatives in a three-dimensional domain] 95k:78011

78-06 Proceedings, conferences, collections, etc.

- (Wolf, Emil) *see* Progress in optics, 95k:78001

Items listed otherwise than by author

- Progress in optics ★ Progress in optics. Vol. XXXIII. 95k:78001

Items with secondary classifications in 78-06

- (Cohen, Gary) *see* Mathematical and numerical aspects of wave propagation, 95m:00022

Items listed otherwise than by author

Conference:

- Mathematical and Numerical Aspects of Wave Propagation ★ Mathematical and numerical aspects of wave propagation. 95m:00022
 Mandelieu-La Napoule ★ Mathematical and numerical aspects of wave propagation. 95m:00022
 Mathematical and numerical aspects of wave propagation ★ Mathematical and numerical aspects of wave propagation. 95m:00022

78-08 Computational methods

- Akishin, P. G. *see* Zhidkov, E. P.; et al., 95k:78004
 Amirkhanov, I. V. *see* Zhidkov, E. P.; et al., 95k:78004
 Berenger, Jean-Pierre A perfectly matched layer for the absorption of electromagnetic waves. (English summary) 95c:78002
 Chen, K. R. (with Dawson, J. M.) New scheme for electromagnetic simulations. (English summary) 95m:78001
 Dawson, J. M. *see* Chen, K. R., 95m:78001
 Efrat, Ilan (with Tismenetsky, Miron; Rubin, B. J.; Webman, I.) Robust algorithms for the calculation of full-wave electromagnetic solutions. (English summary) 95k:78002
 González-Casanova, Pedro (with Wolf, Kurt Bernardo) Interpolation for solutions of the Helmholtz equation. (English summary) 95j:78001
 Heise, Bodo Nonlinear field calculations with multigrid-Newton methods. (English summary) 95a:78002
 Khoromskii, B. N. *see* Zhidkov, E. P.; et al., 95k:78004
 Kindelán, Ultano (with de Vicente, Santiago) Solution of drift-diffusion equations using an artificial diffusion method. Application to semiconductor devices. (Spanish. English and Spanish summaries) 95j:78002
 Krowne, Clifford M. Vector variational and weighted residual finite element procedures for highly anisotropic media. (English summary) 95c:78002
 Miano, Giovanni A qualitative analysis of the behaviour of the Galerkin equations relevant to non-linear eddy current problems. (English summary) 95k:78003
 Rubin, B. J. *see* Efrat, Ilan; et al., 95k:78002
 Siew, P. F. A numerical scheme for the electromagnetic response in thin conductors of arbitrary planar shape. (English summary) 95a:78003
 Tismenetsky, Miron *see* Efrat, Ilan; et al., 95k:78002
 de Vicente, Santiago *see* Kindelán, Ultano, 95j:78002
 Webman, I. *see* Efrat, Ilan; et al., 95k:78002
 Westermann, T. Particle-in-cell simulations with moving boundaries—adaptive mesh generation. (English summary) 95c:78003
 Wolf, Kurt Bernardo *see* González-Casanova, Pedro, 95j:78001
 Zhidkov, E. P. (with Akishin, P. G.; Amirkhanov, I. V.; Zhidkova, I. E.; Khoromskii, B. N.) Some problems in the mathematical modeling of accelerators. (Russian. English and Russian summaries) 95k:78004
 Zhidkova, I. E. *see* Zhidkov, E. P.; et al., 95k:78004

Items with secondary classifications in 78-08

- Abbond, Toufic Electromagnetic waves in periodic media. (English summary) 95a:78010
 Åberg, Ingegard (with Kristensson, Gerhard; Wall, David J. N.) Propagation of transient electromagnetic waves in time-varying media—direct and inverse scattering problems. (English summary) 95j:78019
 Antyufeev, V. S. Optimization in solving inverse problems of atmospheric optics by the Monte Carlo method. (English summary) 95k:78006
 Bezhaev, A. Yu. Construction of weighted cubature formulas in the unit disk that are exact on polynomials. (Russian) (see 95a:65007)
 Boglaev, I. P. (with Sirotkin, V. V.; Lavers, J. D.) The computation of transient 2-D eddy current problem by domain decomposition algorithms. (English summary) 95j:65113
 — *see also* Lavers, J. D.; et al., 95j:65166
 Byers, J. A. (with Dimits, A. M.; Matsuda, Yoshi; Langdon, A. B.) Numerical instability in a 2D gyrokinetic code caused by divergent $E \times B$ flow. (English summary) 95h:76087
 Chang, Ching L. (with Xiang, Xiao Qing; Li, Jian Shi) An analysis of the eddy current problem by the least-squares finite element in 2-D. (English summary) 95a:65161
 Chen, Chipping *see* Qian, Qian; et al., 95c:78004
 Chew, Weng Cho *see* Lu, Cai-Cheng
 Cohen, Gary (with Monk, Peter) Efficient edge finite element schemes in computational electromagnetism. (English summary) (see 95m:00022)
 Collino, Francis *see* Millot, Florence; et al., (95m:00022)
 Colton, David (with Monk, Peter) A modified dual space method for solving the electromagnetic inverse scattering problem for an infinite cylinder. (English summary) 95a:78011
 Davidson, Ronald C. *see* Qian, Qian; et al., 95c:78004
 Dayma, Sandrine *see* Helluy, Philippe, 95i:65187
 Dimits, A. M. *see* Byers, J. A.; et al., 95h:76087
 Dobson, David C. A variational method for electromagnetic diffraction in bi-periodic structures. (English summary) 95m:78017
 Greengard, Leslie (with Moura, Monique) On the numerical evaluation of electrostatic fields in composite materials. (English summary) 95d:78004
 Hall, W. S. ★ The boundary element method. (English summary) 95a:65001
 Hansen, Thorkild B. (with Yaghjian, Arthur D.) Planar near-field scanning in the time domain. II. Sampling theorems and computation schemes. (English summary) 95m:76061
 He, Sailing (with Weston, Vaughan H.) Determination of the permittivity and conductivity in R^3 using wave splitting of Maxwell's equations. (English summary) 95m:78004
 Heise, Bodo Analysis of a fully discrete finite element method for a nonlinear magnetic field problem. (English summary) 95i:65156
 Helluy, Philippe (with Dayma, Sandrine) Convergence d'une approximation discontinue des systèmes du premier ordre. (English and French summaries) [Convergence of a discontinuous approximation of first-order systems] 95i:65187
 Herbin, R. On the effective resistance of an electrolytic membrane. (English summary) 95a:78015

- Hettlich, Frank Two methods for solving an inverse conductive scattering problem. (English summary) 95a:78012
- Holst, Michael (with Saied, Faisal) Multigrid and domain decomposition methods for electrostatics problems. (English summary) (see 95i:65008)
- Joly, Patrick (with Millot, Florence; et al., 95m:00022)
- Kolundžija, B. M. (with Popović, B. D., 95h:78018)
- Kristensson, Gerhard (with Åberg, Ingegerd; et al., 95j:78019)
- de La Bourdonnaye, Armel Some formulations coupling finite element and integral equation methods for Helmholtz equation and electromagnetism. (English summary) 95m:45009
- Langdon, A. B. (with Byers, J. A.; et al., 95h:76087)
- Lavers, J. D. (with Boglaev, I. P.; Sirotkin, V. V.) Solution of the 2-D eddy current problem via the domain decomposition methods on serial and parallel computers. (English summary) 95j:65166
- see also Boglaev, I. P.; et al., 95j:65113
- Li, Jian Shi (with Chang, Ching L.; et al., 95a:65161)
- Lu, Cai-Cheng (with Chew, Weng Cho) The use of Huygens' equivalence principle for solving 3-D volume integral equation of scattering. (English summary)
- Ma, Qi Shuang (with Sheng, Jian Ni) A general analytical method for determining two-dimensional unbounded electrostatic fields. (Chinese. English and Chinese summaries)
- Matsuda, Yoshi (with Byers, J. A.; et al., 95h:76087)
- Millot, Florence (with Collino, Francis; Joly, Patrick) Fictitious domain method for unsteady problems: application to electromagnetic scattering. (English summary) (see 95m:00022)
- Moloney, J. V. (with Powell, J. A.; et al., 95a:78016)
- Monk, Peter On the p - and h -extension of Nédélec's curl-conforming elements. (English summary) 95j:78016
- Superconvergence of finite element approximations to Maxwell's equations. (English summary) 95h:65090
- (with Süli, Endre) A convergence analysis of Yee's scheme on nonuniform grids. (English summary) 95a:65191
- (with Parrott, A. K.) A dispersion analysis of finite element methods for Maxwell's equations. (English summary) 95a:65216
- see also Colton, David, 95a:78011 and Cohen, Gary, (95m:00022)
- Moura, Monique (with Greengard, Leslie, 95d:78004)
- Natterer, Frank (with Wübbeling, F.) A finite difference method for the inverse scattering problem at fixed frequency. (English summary) 95a:65170
- Papiernik, Albert (with Pichot, Christian, 95m:00022)
- Parrott, A. K. (with Monk, Peter, 95a:65216)
- Pichot, Christian (with Papiernik, Albert) Numerical methods in electromagnetic scattering and radiation. (English summary) (see 95m:00022)
- Popović, B. D. (with Kolundžija, B. M.) ★ Analysis of metallic antennas and scatterers. (English summary) 95h:78018
- Powell, J. A. (with Wright, Ewan Malcolm; Moloney, J. V.) Reflection of localized beams from a nonlinear absorbing interface. (English summary) 95a:78016
- Qian, Qian (with Davidson, Ronald C.; Chen, Chipping) Chaotic particle dynamics in a periodic focusing quadrupole magnetic field. (English summary) 95c:78004
- Raviart, Pierre-Arnaud (with Sonnendrücker, Eric) Modèles quasistatique et de Darwin pour les équations de Maxwell. (English and French summaries) [Quasistatic and Darwin models for Maxwell's equations] 95m:78008
- Rothaus, Oscar S. Analytic inversion in synthetic aperture radar. (English summary) 95c:78014
- Sacco, Riccardo A mixed problem for electrostatic potential in semiconductors. (English summary) 95g:65159
- Saied, Faisal (with Holst, Michael, 95i:65008)
- Sheng, Jian Ni (with Ma, Qi Shuang)
- Sirotkin, V. V. (with Boglaev, I. P.; et al., 95j:65113 and Lavers, J. D.; et al., 95j:65166)
- Sonnendrücker, Eric (with Raviart, Pierre-Arnaud, 95m:78008)
- Steinberg, Ben Zion A multiresolution theory of scattering and diffraction. (English summary) 95c:73037
- Stupfel, Bruno Absorbing boundary conditions on arbitrary boundaries for the scalar and vector wave equations. (English summary) 95c:78010
- Süli, Endre (with Monk, Peter, 95a:65191)
- Vigoureux, J. M. Composition law of amplitudes and quantum theory. (English summary) 95c:81015
- Wall, David J. N. (with Åberg, Ingegerd; et al., 95j:78019)
- Weston, Vaughan H. (with He, Sailing, 95m:78004)
- Wright, Ewan Malcolm (with Powell, J. A.; et al., 95a:78016)
- Wübbeling, F. (with Natterer, Frank, 95a:65170)
- Xiang, Xiao Qing (with Chang, Ching L.; et al., 95a:65161)
- Yaghjian, Arthur D. (with Hansen, Thorkild B., 95m:76061)

78A02 Foundations

- Furutsu, Koichi ★ Random media and boundaries. (English summary) 95k:78005

78A05 Geometric optics

- Andreeva, A. S. (with Tokar', V. G.; et al.)
- Borovikov, V. A. (with Kinber, B. E.) ★ Geometrical theory of diffraction. (English summary) 95j:78003
- Davies, P. A. Edge-ray principle of nonimaging optics. (English summary) 95a:78004
- Kinber, B. E. (with Borovikov, V. A., 95j:78003)
- Kröttsch, Guillermo (with Wolf, Kurt Bernardo, 95j:78005)
- Nikitin, M. A. (with Tokar', V. G.; et al.)
- Rajagopal, K. R. (with Wineman, Alan S., 95j:78004)
- Rasmussen, Thomas The anonymous relatives of the catacaustic—latent envelopes of higher order. (Norwegian. English summary) 95i:78002
- Stavroudis, Orestes N. Principal surface of a Cassegrain telescope. (English summary) 95b:78001

- Tokar', V. G. (with Nikitin, M. A.; Andreeva, A. S.) Quasi-isotropic and uniform approximations of geometrical optics. (English summary)
- Wineman, Alan S. (with Rajagopal, K. R.) On constitutive equations for electrorheological materials. (English summary) 95j:78004
- Wolf, Kurt Bernardo (with Kröttsch, Guillermo) Geometry and dynamics in refracting systems. (English and Spanish summaries) 95j:78005

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- Burch, J. M. (with Gerrard, A., 95h:78001)
- Ferraro, Mario Local geometry of surfaces from shading analysis. (English summary) 95d:53002
- Frantz, Marc A focusing property of the ellipse. 95a:51042
- Gerrard, A. (with Burch, J. M.) ★ Introduction to matrix methods in optics. (English summary) 95h:78001
- Goetgheluck, Pierre Fresnel zones on the screen. (English summary) 95g:11129
- Hildebrandt, Stefan Contact transformations, Huygens's principle, and the fourfold picture of the calculus of variations. 95h:49003
- Joly, J.-L. (with Métivier, G.; Rauch, Jeffrey) Coherent and focusing multidimensional nonlinear geometric optics. (English summary) 95k:35035
- Kawaguchi, Michiaki (with Miron, Radu; et al., 95f:78002)
- Kawaguchi, Tomoaki (with Miron, Radu; et al., 95f:78002)
- Kazaryan, M. E. Caustics D_k at points of interface between two media. 95i:58030
- Maslov, V. P. ★ The complex WKB method for nonlinear equations. I. (English summary) 95m:58126
- Métivier, G. (with Joly, J.-L.; et al., 95k:35035)
- Miron, Radu (with Kawaguchi, Tomoaki; Kawaguchi, Michiaki) On the electromagnetic field in relativistic geometrical optics. (English summary) 95f:78002
- Musso, Emilio The local embedding problem for optical structures. (English summary) 95d:53033
- Myasnychenko, O. M. Points of complete reflection and wave fronts on the interface of two media. (Russian. Russian summary) 95g:58020
- Newman, Elsa (with Olker, Vladimir) Differential-geometric methods in design of reflector antennas. (English summary) 95i:78011
- Olker, Vladimir (with Newman, Elsa, 95i:78011)
- Petterson, A. O. Arnold's singularity theory and gravitational lensing. (English summary) 95a:58009
- Pham, Frédéric Principe de Huygens et trajectoires complexes ou Balian et Bloch vingt ans après. (English and French summaries) [The Huygens principle and complex trajectories, or Balian and Bloch twenty years later] 95h:58139
- Rauch, Jeffrey (with Joly, J.-L.; et al., 95k:35035)
- (Shishkova, M. A.) (with Maslov, V. P., 95m:58126)
- (Sosinskii, A. B.) (with Maslov, V. P., 95m:58126)

78A10 Physical optics

- Aceves, A. B. Soliton turbulence in nonlinear optical phenomena. 95c:78003
- Anderson, Donald G. M. (with Barakat, Richard) Necessary and sufficient conditions for a Mueller matrix to be derivable from a Jones matrix. (English summary) 95c:78004
- Antyufeev, V. S. Optimization in solving inverse problems of atmospheric optics by the Monte Carlo method. (English summary) 95k:78006
- Arthur, Kieran (with Burzlaff, J.) Perturbation method for the energy-momentum tensor of an optical soliton. (English summary) 95m:78002
- Asatryan, A. A. (with Grigoryan-Khakhatsyan, G. Kh.; Nikogosyan, A. K.) A field in a neighborhood of the focus of a hyperbolic mirror. (Russian. English, Russian and Armenian summaries) 95b:78002
- Barakat, Richard (with Anderson, Donald G. M., 95c:78004)
- Beldiceanu, D. The relation between the covariant and the noncovariant pictures of totally polarized light beams. (English summary) 95a:78005
- Bentosela, F. Propagation in irregular optical fibres. (see 95g:81002)
- Boyakov, Maxim I. (with Drolet, Jean-Pierre; et al., 95j:78006)
- Bruno, Oscar P. (with Reitech, Fernando) Maxwell equations in a nonlinear Kerr medium. (English summary) 95i:78003
- Burzlaff, J. (with Arthur, Kieran, 95m:78002)
- Chumakov, S. M. (with Wolf, Kurt Bernardo) Supersymmetry in Helmholtz optics. (English summary) 95g:78002
- Ding, Guang Tao A quaternion representation of polarization optics. (English and Chinese summaries) 95i:78004
- Drolet, Jean-Pierre (with Russev, Stoyan C.; Boyakov, Maxim I.; Leblanc, Roger M.) Polynomial inversion of the single transparent layer problem in ellipsometry. (English summary) 95j:78006
- Foley, John T. (with Wolf, Emil) Radiometry with quasihomogeneous sources. (English summary) 95m:78003
- Grigoryan-Khakhatsyan, G. Kh. (with Asatryan, A. A.; et al., 95b:78002)
- Hannay, J. H. (with Keating, Jonathan Peter; Ozorio de Almeida, Alfredo M.) Optical realization of the baker's transformation. (English summary) 95g:78003
- Heyman, Ehud Pulsed beam propagation in inhomogeneous medium. (English summary) 95b:78003
- Kaloshin, V. A. (with Venetskii, A. S., 95h:78004)
- Keating, Jonathan Peter (with Hannay, J. H.; et al., 95g:78003)
- Kolner, Brian H. Generalization of the concepts of focal length and f -number to space and time. (English summary) 95j:78007
- Leblanc, Roger M. (with Drolet, Jean-Pierre; et al., 95j:78006)
- Ng, Kin-Chung Self-focusing and self-trapping of spherical beams in a nonlinear medium. (English summary) 95h:78003
- Nikogosyan, A. K. (with Asatryan, A. A.; et al., 95b:78002)
- Nityananda, Rajaram Pancharatnam's route to the geometric phase. (English summary)
- Opatrný, Tomáš Mean value and uncertainty of optical phase—a simple mechanical analogy. (English summary)
- Ozorio de Almeida, Alfredo M. (with Hannay, J. H.; et al., 95g:78003)
- (Pancharatnam, S.) (with Nityananda, Rajaram)

- Reitch, Fernando *see* Bruno, Oscar P. 95f:78003
 Russev, Stoyan C. *see* Drolet, Jean-Pierre; et al. 95f:78006
 Venetskii, A. S. (with Kaloshin, V. A.) The design of an axially symmetric gradient lens when one of the refracting surfaces has a given shape. (Russian) 95b:78004
 Veremeenko, T. V. An iterative method for solving quasi-optic problems. (Russian. Russian summary) 95f:78003
 Wolf, Emil *see* Foley, John T. 95m:78003
 Wolf, Kurt Bernardo Canonical transformations in mechanics vis-à-vis those in optics. (English summary) (see 95c:81002)
 — *see also* Chumakov, S. M. 95g:78002

Items with secondary classifications in 78A10

- Antonelli, Peter L. (with Ingarden, R. S.; Matsumoto, Makoto) ★ The theory of sprays and Finsler spaces with applications in physics and biology. (English summary) 95c:53094
 Arnold, J. M. Stability theory for periodic pulse train solutions of the nonlinear Schrödinger equation. (English summary) 95d:35158
 Baboiu, D. M. *see* Mihalache, D.; et al. 95i:35282
 Berry, Michael Victor Pancharatnam, virtuoso of the Poincaré sphere: an appreciation. 95f:78004
 Booker, G. R. *see* Török, P.; et al. 95f:78024
 Burch, J. M. *see* Gerrard, A. 95h:78001
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- Qian, Qian (with Davidson, Ronald C.; Chen, Chipping) Chaotic particle dynamics in a periodic focusing quadrupole magnetic field. (English summary) **95c:78004**
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- Akhiezer, A. I. (with Shul'ga, N. F.) ★ Электродинамика высоких энергий в веществе. (Russian) [High-energy electrodynamics in matter] **95c:81249**
- Akishin, P. G. see Zhidkov, E. P.; et al., **95k:78004**
- Albino, Günter Numerical simulation of the carrier transport in semiconductor devices on the base of an energy model. (see **95c:65004**)

- Amirkhanov, I. V. see Zhidkov, E. P.; et al., **95k:78004**
- Bambusi, Dario A Nekhoroshev-type theorem for the Pauli-Fierz model of classical electrodynamics. (English and French summaries) **95d:78001**
- Benettin, Giancarlo (with Sempio, Paolo) Adiabatic invariants and trapping of a point charge in a strong nonuniform magnetic field. (English summary) **95f:70020**
- Blokhin, A. M. (with Druzhinin, I. Yu.; Mishchenko, E. V.) Theory and computation of third-order aberrations of cathode systems. (Russian. Russian summary) **95d:78007**
- Degond, Pierre (with Raviart, Pierre-Arnaud) L'émission des particules chargées: le modèle de Child-Langmuir. [Charged-particle emission: the Child-Langmuir model] **95c:78013**
- Delgado Fernández, Joaquín On the relation between gravitational and Coulombian forces through analytic continuation. **95k:70016**
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- Fang, Wei Fu (with Ito, Kazufumi) On the time-dependent drift-diffusion model for semiconductors. **95m:35086**
- Gajewski, Herbert On uniqueness of solutions to the drift-diffusion-model of semiconductor devices. (English summary) **95k:35202**
- Gill, Tepper L. (with Zachary, Woodford W.; Mahmood, M. F.; Lindsay, James) Proper-time relativistic dynamics and a resolution of the no-interaction problem. (English summary) **95i:70021**
- Ingarden, R. S. (with Tamásy, L.) The point Finsler spaces and their physical applications in electron optics and thermodynamics. (English summary) **95h:53097**
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- Kandrup, Henry E. Reduced Hamiltonian descriptions. (English summary) **95g:58084**
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- Leach, P. G. L. $sl(2, \mathbb{R})$, Ermakov systems and the magnetic monopole. (English summary) **95c:70026**
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- Varma, Ram K. Topological manifestations in classical mechanics: discrete allowed and forbidden states of motion. (English summary) **95k:70040**
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- Zhidkov, E. P. (with Akishin, P. G.; Amirkhanov, I. V.; Zhidkova, I. E.; Khoromskii, B. N.) Some problems in the mathematical modeling of accelerators. (Russian. English and Russian summaries) **95k:78004**
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- Budden, K. G. The triple coalescence of coupling points for waves in stratified media. (English summary) **95c:78007**
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- Dmitriev, Vladimir Ivanovich (with Falaleev, S. P.) The method of three-dimensional potentials in the problem of modeling electromagnetic fields in quasi-stratified media. (Russian. Russian summary) **95b:78013**
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- Kadish, A. Mathematical modelling of active parameters for transmission line equations. (English summary) **95c:78006**
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- Crosta, Giovanni F. The backpropagation method in inverse acoustics. (English summary) 95m:35200
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- Afanasyev, G. N. Vector solutions of the Laplace equation and the influence of helicity on Aharonov-Bohm scattering. (English summary) 95i:78008
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- Boyarevich, V. V.** (with Romero, M. V.) Long waves instability of liquid metal-electrolyte interface in aluminium electrolysis cells: a generalization of Sele's criterion. (English summary) **95b:76035**
- Buryak, Alexander V.** (with Kivshar, Yu. S.) Solitons due to second harmonic generation. (English summary) **95j:35188**
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- Davidson, P. A.** An energy analysis of unstable, aluminium reduction cells. (English summary) **95b:76034**
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- Kishimoto, Yasuaki** (with Tokuda, S.; Sakamoto, Keishi) Beam orbit analysis in a wiggler by using a noncanonical perturbation method. (English summary)
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- Kudryavtsev, A. G.** Group analysis of equations of thermal self-interaction of laser radiation in a moving medium. (Russian. Russian summary) **95a:35141**
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- Nouri, A.** Paraxial approximation of the Vlasov-Maxwell system: laminar beams. (English summary) **95d:82067**
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- Plastino, A.** see Portesi, M., **95a:81314**
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- Romero, M. V.** see Boyarevich, V. V., **95b:76035**
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- Wegelin, Michael** Hopf bifurcation in symmetrically coupled lasers. (English summary) **95j:58126**

78A70 Biological applications [see also 92C30, 92J30]

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- Sharafutdinov, V. A.** Problem of polarization tomography. (English summary) **95b:78021**

78A99 Miscellaneous topics

- Akhmet'ev, P. M.** Solution of the electromagnetic field equations for a three-dimensionally nonuniform conducting medium. (Russian)
- Bytner, S.** (with Gambin, Barbara) Effective properties of heterogeneous deformable ferromagnetic medium. (English summary) **95b:78026**
- Gambin, Barbara** see Bytner, S., **95b:78026**

Iannece, D. (with Romano, Antonio; Şuhubi, Erdoğan S.) A thermodynamical approach to the structure of Weiss domains in deformable ferroelectric crystals. (English summary) 95f:78014

Romano, Antonio (with Şuhubi, Erdoğan S.) Structure of Weiss domains in elastic ferroelectric crystals. (English summary) 95f:78013
— see also Iannece, D.; et al., 95f:78014

Seccia, Leonardo Electromagnetic shock wave propagation in a nonlinear dielectric medium. (English summary) (see 95j:00017)

Şuhubi, Erdoğan S. see Romano, Antonio, 95f:78013 and Iannece, D.; et al., 95f:78014
Tomescu, Anca On the statement of the induced current reaction problem. (English summary) 95b:78027

— Weak solutions of the induced current reaction problem. (English summary) 95b:78028

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Barut, Asim O. (with Moore, D. J.; Piron, Constantin) Spacetime models from the electromagnetic field. (English summary) 95h:83053

Choi, Yung Sze (with Lui, Roger; Yu, Xun) Electrolysis and isoelectric focusing. (English summary) 95h:92033

Denisenko, V. V. A boundary value problem for a two-dimensional elliptic equation with asymmetric tensor coefficients. (Russian. Russian summary) 95f:35063

Dittrich, J. (with Duclos, Pierre¹; Šeba, Petr) Classical d'Alembert field in an one-dimensional pulsating region. (English summary) (see 95g:81002)

Duclos, Pierre¹ see Dittrich, J.; et al., (95g:81002)

Figotin, A. L. Photonic pseudogaps for periodic dielectric structures. (English summary) 95g:82091

— (with Kuchment, Peter) Band-gap structure of the spectrum of periodic Maxwell operators. (English summary) 95g:82092

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Zakharova, I. G. (with Karamzin, Yu. N.; Trofimov, V. A.) Numerical methods for optical thermal blooming problems. (English summary) 95c:65138

Zhukov, M. Yu. Separation of infinite-component mixtures by an electric field. (Russian. Russian summary) 95a:35142

80-XX Classical thermodynamics, heat transfer {For thermodynamics of solids, see 73B30.}

80-01 Instructional exposition (textbooks, tutorial papers, etc.)

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80-02 Research exposition (monographs, survey articles)

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Jou, D. (with Casas-Vázquez, J.; Lebon, G.) ★ Extended irreversible thermodynamics. (English summary) 95a:80004

Lebon, G. see Jou, D.; et al., 95a:80004

80-03 Historical (must also be assigned at least one classification number from Section 01)

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Cimblea, Boris Einstein's works on thermodynamics (1902-1904) and the statistical mechanics of Gibbs. (Portuguese) (see 95b:00007)

80-04 Explicit machine computation and programs (not the theory of computation or programming)

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Numerical modeling in combustion ★ Numerical modeling in combustion. 95a:80025

80-06 Proceedings, conferences, collections, etc.

(Lewis, R. W.) see Numerical methods in thermal problems, 95c:80001

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80-08 Computational methods

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Chatwin, Chris R. see Zerroukat, Mohamed, 95a:80002 and 95k:80002

Chen, Xiang Y. see Tamma, Kumar K.; et al., 95m:80002

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Sun, Pu (with Chock, David P.; Winkler, Sandra L.) An implicit-explicit hybrid solver for a system of stiff kinetic equations. (English summary) 95g:80003

Tamma, Kumar K. (with Mei, Youping; Chen, Xiang Y.; Sha, De Song) Recent advances towards an effective virtual-pulse (VIP) explicit time integral methodology for general multidimensional thermal analysis. (English summary) 95m:80002

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80A10 Classical thermodynamics

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- Ginzburg, B. Z. (with Aharon, I.) The second law of thermodynamics revisited. I. The absolute zero of potential and the general expression for the efficiency of universal reversible cycle. (English summary) 95f:80002
- Hai, Wen Hua The principles of symplectic thermodynamics. (Chinese. English and Chinese summaries) 95j:80002
- Liu, Shu Yi The state-field theory of the laws of thermodynamics. IV. The system of inequalities for co-terminal processes of a new second law of thermodynamics: the law of coupling. (Chinese. English and Chinese summaries) 95m:80004
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- de Haas, K. H. see Jongschaap, R. J. J.; et al., 95c:76008
- Haupt, P. Thermodynamics of solids. (English summary) 95k:73009
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80A15 Thermodynamics of mixtures

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- Serre, Denis Entropie du mélange liquide-vapeur d'un fluide thermo-capillaire. (French summary) [Entropy of the liquid-vapor mixture of a thermocapillary fluid] **95k:76040**

80A20 Heat and mass transfer, heat flow

- Aksënov, B. G. Bounds for solutions of some nonlinear nonmonotone problems for equations of heat conduction type. (Russian. Russian summary) **95a:80008**
- Baba, Kinji (with Ochi, M.) Monitoring of transient temperature distribution in piping. (English summary) (see **95i:00013**)
- Bajpai, S. D. Heat conduction in an infinite region and Hermite polynomials. (Romanian summary)
- Belyaev, N. M. (with Ryadno, A. A.) ★ Математические методы теплопроводности. (Russian. Russian and Ukrainian summaries) [Mathematical methods in heat conduction] **95f:80004**
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- Andreev, V. V. (with Kol'tsov, N. I.) The "dead zone" in porous catalyst grains for reactions with arbitrary kinetics. (Russian) 95b:80009
- Berestycki, Henri (with Bonnet, Alexis; Larroutou, Bernard) Unité des flammes planes en chimie complexe. (English and French summaries) [Uniqueness of planar flames with complex chemistry] 95b:80010
- Bonnet, Alexis *see* Berestycki, Henri; et al., 95b:80010
- Chaudhary, M. A. *see* Merkin, J. H., 95c:80006
- Desch, Wolfgang (with Prüss, Jan) Dynamical behavior of a two-phase chemically reacting system including mass transfer. (English summary) 95f:80013
- Hassan, Sergio Alejandro. (with Zanette, D. H.; Wio, Horacio S.) Stationary states in a reaction-diffusion system with albedo boundary conditions. (English summary) 95f:80014
- Ivanova, A. N. (with Tarnopol'skii, B. L.) Diffusion instability effects under inhomogeneous conditions. (Russian. Russian summary) 95k:80007
- Kol'tsov, N. I. *see* Andreev, V. V., 95b:80009
- Lalicata, M. V. (with Torrisi, M.) Group analysis approach for a binary reacting mixture. (English summary) 95g:80014
- Larroutou, Bernard *see* Berestycki, Henri; et al., 95b:80010
- Logan, J. David (with Shores, Thomas S.) Steady state solutions in a model reacting flow problem. (English summary) 95d:80008
- Merkin, J. H. (with Chaudhary, M. A.) Free-convection boundary layers on vertical surfaces driven by an exothermic surface reaction. (English summary) 95c:80006
- *see also* Metcalf, M. J.; et al., 95b:80011 and 95g:80015
- Metcalf, M. J. (with Merkin, J. H.; Scott, S. K.) Reaction-diffusion waves in coupled isothermal autocatalytic chemical systems. (English summary) 95b:80011
- (with Merkin, J. H.; Scott, S. K.) Oscillating wave fronts in isothermal chemical systems with arbitrary powers of autocatalysis. (English summary) 95g:80015
- Prüss, Jan *see* Desch, Wolfgang, 95f:80013
- Sal'nikov, I. E. On the sources of the theory of chemical self-induced oscillations. (Russian. Russian summary) 95j:80009
- Scott, S. K. *see* Metcalf, M. J.; et al., 95b:80011 and 95g:80015
- Shores, Thomas S. *see* Logan, J. David, 95d:80008
- Tarnopol'skii, B. L. *see* Ivanova, A. N., 95k:80007
- Torrisi, M. *see* Lalicata, M. V., 95g:80014
- Wio, Horacio S. *see* Hassan, Sergio Alejandro; et al., 95f:80014
- Zanette, D. H. *see* Hassan, Sergio Alejandro; et al., 95f:80014

Items with secondary classifications in 80A32

- Balakotaiah, Vemuri *see* Subramanian, Sudhakar
- Boillat, Eric Existence and uniqueness of the solution to the edge problem in a two-dimensional reactive boundary layer. (English summary) 95k:76101
- Byrne, Helen (with Norbury, John) Stable solutions for a catalytic converter. (English summary) 95a:80026
- Cassisi, B. (with Tikhomirov, O.; Wagner, B. A.) Asymptotic solution for nonlinear chemical vapor deposition problems. 95b:80007
- Chadam, John Reactive flows in porous media: the reaction-infiltration instability. (English summary) 95a:76088
- Chicone, Carmen *see* Retzloff, David G.; et al., 95j:34035
- Chock, David P. *see* Sun, Pu; et al., 95g:80003
- Croisille, Jean-Pierre (with Villedieu, Philippe) Entropies de Lax pour les équations d'Euler en déséquilibre thermochimique. (English and French summaries) [Lax entropies

- for the Euler equations in thermochemical nonequilibrium] 95f:35204
- Di Liddo, A. (with Maddalena, L.; Stakgold, I.) Traveling waves for distributed gas-solid reactions. (English summary) 95g:35203
- van Duijn, C. J. (with Straathof, A.) Travelling waves for gas-solid reactions. (English summary) 95d:35083
- Forbes, Lawrence K. (with Gray, Brian F.) Forced oscillations in an exothermic chemical reaction. (English summary) 95j:92022
- Glimsky, Nathalie ★ Simulation numérique d'écoulements hypersoniques réactifs hors-équilibre chimique. (French. French summary) [Numerical simulation of hypersonic reacting flows in chemical nonequilibrium] 95h:76078
- Gray, Brian F. see Forbes, Lawrence K., 95j:92022
- Gu, Dao Xin Qualitative analysis of a class of biochemical systems. (Chinese. English and Chinese summaries) 95h:92034
- Hsu, Guan-Hsong see Retzloff, David G.; et al., 95j:34035
- Jain, S. L. see Ronghe, Ashok Kumar, 95g:33013
- Maddalena, L. see Di Liddo, A.; et al., 95g:35203
- Norbury, John see Byrne, Helen, 95a:80026
- Petrov, A. N.² Boundary value problems for equations of a one-dimensional unsteady flow of a reacting mixture of gases. (Russian. English and Russian summaries) 95g:76046
- Retzloff, David G. (with Chicone, Carmen; Hsu, Guan-Hsong) Multiple solutions of a nonlinear boundary value problem with application to chemical reactor dynamics. (English summary) 95j:34035
- Ronghe, Ashok Kumar (with Jain, S. L.) n -order of chemical reaction of velocity constant and generalized H -function. (Hindi. English and Hindi summaries) 95g:33013
- Soroka, A. A. On the solvability of the first initial-boundary value problem for equations that describe the flow of a viscous incompressible mixture in which a chemical reaction takes place. (Russian. Russian summary) 95f:35208
- Stakgold, I. see Di Liddo, A.; et al., 95g:35203
- Straathof, A. see van Duijn, C. J., 95d:35083
- Subramanian, Sudhakar (with Balakotaiah, Vemuri) Convective instabilities induced by exothermic reactions occurring in a porous medium. (English summary)
- Sun, Pu (with Chock, David P.; Winkler, Sandra L.) An implicit-explicit hybrid solver for a system of stiff kinetic equations. (English summary) 95g:80003
- Tang, Yan Lin The fluctuating dissipative behavior of a class of reaction-diffusion models. (Chinese. English and Chinese summaries) 95b:80008
- Tegner, J. K. Properties of simple model problems for reacting gas flows. (English summary) 95d:76105
- Tikhomirov, O. see Cassis, B.; et al., 95b:80007
- Verwer, J. G. Gauss-Seidel iteration for stiff ODEs from chemical kinetics. (English summary) 95d:65057
- Villedieu, Philippe see Croisille, Jean-Pierre, 95f:35204
- Wagner, B. A. see Cassis, B.; et al., 95b:80007
- Wang, Li Jun The calculation of the free boundary problem in a chemical reaction. (Chinese. English and Chinese summaries) 95b:35237
- Wang, Ming Xin² (with Xiong, Shu Lin; Ye, Qi Xiao) Explicit wave front solutions of Noyes-Field systems for the Belousov-Zhabotinskii reaction. (English summary) 95d:35091
- Winkler, Sandra L. see Sun, Pu; et al., 95g:80003
- Xiong, Shu Lin see Wang, Ming Xin²; et al., 95d:35091
- Ye, Qi Xiao see Wang, Ming Xin²; et al., 95d:35091

80A97 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)

Items with secondary classifications in 80A97

- Ruggeri, Tommaso Convexity and symmetrization in classical and relativistic balance laws systems. (French summary) 95a:73014

80A99 Miscellaneous topics

- Mazhukin, V. I. (with Samarskii, A. A.) Mathematical modeling in the technology of laser treatments of materials. (English summary)
- Samarskii, A. A. see Mazhukin, V. I.

Items with secondary classifications in 80A99

- Bossavit, Alain (with Rodrigues, José-Francisco) On the electromagnetic "induction heating" problem in bounded domains. (English summary) 95j:35220
- Éshonkulov, B. O. see Radkevich, E. V., 95a:35147
- Fowler, Andrew C. (with Krantz, William B.) A generalized secondary frost heave model. (English summary) 95g:76054
- Krantz, William B. see Fowler, Andrew C., 95g:76054
- Price, C. B. Turing hexagons in pure cubic nonlinear fields. (English summary) 95j:82041
- Radkevich, E. V. (with Éshonkulov, B. O.) On the existence of the classical solution of the problem of impregnation of glass-like polymers. (Russian) 95a:35147
- Rodrigues, José-Francisco see Bossavit, Alain, 95j:35220

81-XX Quantum theory

81-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Balachandran, A. P. (with Marmo, G.; Skagerstam, B.-S.; Stern, Allen Bruce) ★ Classical

topology and quantum states. 95b:81001

- Blank, Jifi (with Exner, Pavel; Havlíček, Miloslav) ★ Hilbert space operators in quantum physics. 95f:81001
- Bogolyubov, N. N. (with Shirkov, D. V.) ★ Квантовые поля. (Russian. English and Russian summaries) [Quantum fields] 95j:81001
- Brandt, Siegmund (with Dahmen, Hans Dieter) ★ Quantum mechanics on the personal computer. (English summary) 95a:81001
- (with Dahmen, Hans Dieter) ★ Quantum mechanics on the Macintosh. (English summary) 95m:81001
- Dahmen, Hans Dieter see Brandt, Siegmund, 95a:81001 and 95m:81001
- Exner, Pavel see Blank, Jifi; et al., 95f:81001
- Feagin, James M. ★ Quantum methods with Mathematica. (English summary) 95m:81002
- Frank, Alejandro (with Van Isacker, Pieter) ★ Algebraic methods in molecular and nuclear structure physics. 95d:81001
- (Geilikman, B. T.) see Gol'dman, I. I., 95b:81002
- Gol'dman, I. I. (with Krivchenkov, V. D.) ★ Problems in quantum mechanics. (English summary) 95b:81002
- Havlíček, Miloslav see Blank, Jifi; et al., 95f:81001
- Hwang, W.-Y. Pauchy see Wu, Ta Yu, 95e:81002
- Krivchenkov, V. D. see Gol'dman, I. I., 95b:81002
- de Lange, O. L. (with Raab, R. E.) ★ Operator methods in quantum mechanics. 95j:81002
- (Lee, T. D.) see Wu, Ta Yu, 95e:81002
- (Lepa, E.) see Gol'dman, I. I., 95b:81002
- Marmo, G. see Balachandran, A. P.; et al., 95b:81001
- (Marquit, E.) see Gol'dman, I. I., 95b:81002
- (Merzbacher, Eugen) see Feagin, James M., 95m:81002
- Mitter, Heinrich ★ Quantentheorie. (German. German summary) [Quantum theory] 95j:81003
- von Neumann, John ★ Fundamentos matemáticos de la mecánica cuántica. (Spanish. Spanish summary) [Mathematical foundations of quantum mechanics] 95c:81001
- (Ortiz Fornaguera, Ramón) see von Neumann, John, 95c:81001
- Peres, Asher ★ Quantum theory: concepts and methods. (English summary) 95e:81001
- Raab, R. E. see de Lange, O. L., 95j:81002
- (Sánchez-Ron, José Manuel) see von Neumann, John, 95c:81001
- Shirkov, D. V. see Bogolyubov, N. N., 95j:81001
- Skagerstam, B.-S. see Balachandran, A. P.; et al., 95b:81001
- Squires, Euan J. ★ The mystery of the quantum world. 95j:81004
- Stern, Allen Bruce see Balachandran, A. P.; et al., 95b:81001
- Thompson, William J. ★ Angular momentum. (English summary) 95f:81002
- Van Isacker, Pieter see Frank, Alejandro, 95d:81001
- Wu, Ta Yu (with Hwang, W.-Y. Pauchy) ★ Relativistic quantum mechanics and quantum fields. (English summary) 95e:81002
- Zinn-Justin, J. ★ Quantum field theory and critical phenomena. 95e:81001

Items listed otherwise than by author

Biography:

- von Neumann, John see von Neumann, John, 95c:81001

Items with secondary classifications in 81-01

- Akhiezer, A. I. (with Shul'ga, N. F.) ★ Электродинамика высоких энергий в веществе. (Russian) [High-energy electrodynamics in matter] 95e:81249
- Albert, David Z. ★ Quantum mechanics and experience. 95c:81003
- Balachandran, A. P. ★ Hellmann-Feynman theorem in a linear superposition of energy eigenstates. (English summary) 95j:81072
- Chan, Hong-Mo (with Tsou, Sheung Tsun) ★ Some elementary gauge theory concepts. (English summary) 95e:81151
- Harter, William G. ★ Principles of symmetry, dynamics, and spectroscopy. 95b:81236
- Heine, Volker ★ Group theory in quantum mechanics. (English summary) 95b:81064
- Hurt, Norman E. Bakers and cats: a review of simple systems in quantum chaosology. (English summary) 95j:81065
- Jordan, Thomas F. Quantum mysteries explored. (English summary) 95i:81005
- Kim, Y. S. (with Noz, M. E.) ★ Phase-space picture of quantum mechanics. 95c:81080
- Meystre, Pierre (with Sargent, Murray, III) ★ Elements of quantum optics. (English summary) 95b:81244
- Noz, M. E. see Kim, Y. S., 95c:81080
- Oliver, David ★ The shaggy steed of physics. (English summary) 95d:00013
- Omnes, Roland ★ The interpretation of quantum mechanics. (English summary) 95m:81007
- Roepstorff, Gert ★ Path integral approach to quantum physics. (English summary) 95e:81130
- Sargent, Murray, III see Meystre, Pierre, 95b:81244
- Shul'ga, N. F. see Akhiezer, A. I., 95e:81249
- Stedman, Geoffrey E. ★ Diagram techniques in group theory. 95a:81088
- Tsirelson, B. S. Some results and problems on quantum Bell-type inequalities. (English summary) (see 95f:00025)
- Tsou, Sheung Tsun see Chan, Hong-Mo, 95e:81151

81-02 Research exposition (monographs, survey articles)

- (Barton, Gabriel) see Le Bellac, Michel, 95j:81005
- (Efimov, O. P.) see Monastyrskii, M. I., 95k:81001
- Guadagnini, Enore ★ The link invariants of the Chern-Simons field theory. 95b:81003
- Le Bellac, Michel ★ Quantum and statistical field theory. 95j:81005
- (Levy, Silvio V. F.) see Schwarz, Albert S., 95b:81001
- Monastyrskii, M. I. ★ Topology of gauge fields and condensed matter. 95k:81001
- Schwarz, Albert S. ★ Topology for physicists. 95b:81001

Items with secondary classifications in 81-02

- Abdalla, Elcio (with Abdalla, M. Cristina B.; Rothe, Klaus D.) ★ Nonperturbative methods in 2-dimensional quantum field theory. 95e:81189

- Abdalla, M. Cristina B. *see* Abdalla, Elcio; et al., 95b:81189
- Atiyah, Michael F. Quantum field theory and low-dimensional geometry. 95f:57050
- Baez, John C. (with Muniain, Javier P.) ★ Gauge fields, knots and gravity. 95k:83001
- Bais, F. Alexander (with de Wild Propitius, Mark) Quantum groups in the Higgs phase. (English and Russian summaries) 95b:81056
- Balachandran, A. P. (with Teotônio Sobrinho, P.) Vertex operators for the BF system and its spin-statistics theorems. (English summary) 95b:81168
- Bars, Itzhak Dynamical symmetry and string theory. (see 95g:81003)
- Baulieu, Laurent On supersymmetric and topological quantum mechanical models. (English summary) 95k:81035
- Berkovich, Alexander (with Gómez, César; Sierra, Germán) Spin-anisotropy commensurate chains. Quantum group symmetries and $N = 2$ SUSY. (English summary) 95c:82017
- Bernard, Denis (with LeClair, André) The quantum double in integrable quantum field theory. (English summary) 95b:81172
- Birman, Joseph L. *see* Solomon, Allan I., (95g:81003)
- Bogolyubov, N. M. (with Izergin, A. G.; Korepin, V. E.) ★ Корреляционные функции интегрируемых систем и кантовый метод обратной задачи. (Russian. Russian summary) [Correlation functions of integrable systems and the quantum inverse problem method] 95j:81240
- *see also* Korepin, V. E.; et al., 95b:81224
- Cassinielli, Gianni Mathematical foundations of classical embeddings of quantum mechanical state spaces. (English summary) 95a:81036
- Catto, I. (with Lions, Pierre-Louis) Hartree and Thomas-Fermi type models and the binding of molecular systems. (English summary) (see 95k:00024)
- Cheng, Hung Canonical quantization of Yang-Mills theories. 95j:81144
- Cooper, Fred (with Khare, Avinash; Sukhatme, Uday P.) Supersymmetry and quantum mechanics. (English summary) 95m:81055
- David, François Louis Random matrices and two-dimensional gravity. (English summary) (see 95f:82002)
- Dijkgraaf, Robbert Integrable hierarchies and quantum gravity. 95g:81172
- Egawa, Hiroshi S. (with Ooike, Kouji; Wada, Morihiro) Quantum theory of 2D dilaton black hole. (English summary) 95b:81084
- Eliezer, D. (with Semenoff, Gordon W.) Canonically quantized lattice Chern-Simons theory. (English summary) 95c:81152
- Fack, V. Numerical methods for solving one-dimensional and radial Schrödinger equations. (English and Dutch summaries) 95c:81020
- Fainberg, V. Ya. *see* Subbotin, A. V., 95g:81099
- Fradkin, Eduardo ★ Field theories of condensed matter systems. (English summary) 95g:82002
- Frochaux, Etienne The bound-states in quantum field theory: review of some analytic problems raised by the variational perturbation method. (English summary) 95a:81161
- Fuchs, Jürgen (with Gepner, Doron) Braiding in conformal field theory and solvable lattice models. (English summary) 95g:81176
- Furlan, Paolo (with Ganchev, A. Ch.; Pagnon, R.; Petkova, V. B.) On the "Drinfel'd-Sokolov" reduction of the Knizhnik-Zamolodchikov equation. 95b:81180
- Fushchich, V. I. (with Nikitin, A. G.) ★ Symmetries of equations of quantum mechanics. 95k:81041
- Ganchev, A. Ch. *see* Furlan, Paolo; et al., 95b:81180
- Gepner, Doron *see* Fuchs, Jürgen, 95g:81176
- Glauber, Roy J. The quantum mechanics of trapped wave packets. (English summary) (see 95a:81002)
- Gómez, César *see* Berkovich, Alexander; et al., 95c:82017
- Imbimbo, Camillo New modular representations and fusion algebras from quantized $SL(2, \mathbb{R})$ Chern-Simons theories. (English summary) 95a:81239
- Izergin, A. G. *see* Korepin, V. E.; et al., 95b:81224 and Bogolyubov, N. M.; et al., 95j:81240
- Jackiw, Roman (with Pi, So-Young) Finite and infinite symmetry in $(2+1)$ -dimensional field theory. (see 95g:81003)
- Kaku, Michio Recent developments in $D = 2$ string field theory. (English summary) 95b:81185
- Kastler, Daniel State of the art of Alain Connes' version of the standard model. (English summary) 95c:81155
- Kauffman, Louis H. Introduction to quantum topology. (English summary) 95c:57011
- Keller, Jaime The geometric content of the electron theory. I. (English summary) 95i:81088
- Khare, Avinash *see* Cooper, Fred; et al., 95m:81055
- Kleinert, Hagen ★ Pfadintegrale in Quantenmechanik, Statistik und Polymerphysik. (German. German summary) [Path integrals in quantum mechanics, statistics and polymer physics] 95a:81153
- Klimyk, A. U. (with Pakulyak, S. Z.) Infinite-dimensional representations of quantum algebras. 95b:81093
- Korepin, V. E. (with Bogolyubov, N. M.; Izergin, A. G.) ★ Quantum inverse scattering method and correlation functions. (English summary) 95b:81224
- *see also* Bogolyubov, N. M.; et al., 95j:81240
- Kosloff, R. The Fourier method. (English summary) (see 95c:81178)
- Kursumoglu, Behram N. After Einstein and Schrödinger—a new unified field theory. (English and French summaries) 95c:81254
- Kuznetsov, Dimitri Non-adiabaticity, chaos and topological effects on nuclear collective dynamics. (see 95g:81003)
- Lam, Chi-Sing Spinor helicity technique and string reorganization for multiloop diagrams. (English and French summaries) 95g:81132
- Lange, Horst R. (with Toomire, Bruce V.; Zweifel, Paul F.) A survey of Wigner-Poisson problems. 95i:81132
- LeClair, André *see* Bernard, Denis, 95b:81172
- Levy, Silvio V. F. *see* Schwarz, Albert S., 95c:81085
- Lions, Pierre-Louis *see* Catto, I., (95k:00024)
- Man'ko, V. I. Nonstationary oscillator in quantum mechanics. (English summary) (see 95c:81002)
- Mironov, A. D. 2D gravity and matrix models. I. 2D gravity. (English summary) 95j:81200
- Muniain, Javier P. *see* Baez, John C., 95k:83001

- Nagasawa, Masao ★ Schrödinger equations and diffusion theory. (English summary) 95d:60131
- Nikitin, A. G. *see* Fushchich, V. I., 95k:81041
- Novotný, Jiří² Axial anomaly and dimensional regularization (a review). (English summary) 95c:81160
- Nussenzweig, Herch M. Moshinsky functions, resonances and tunneling. (English summary) (see 95c:81002)
- Ooike, Kouji *see* Egawa, Hiroshi S.; et al., 95b:81084
- Pakulyak, S. Z. *see* Klimyk, A. U., 95b:81093
- Pagnon, R. *see* Furlan, Paolo; et al., 95b:81180
- Petkova, V. B. *see* Furlan, Paolo; et al., 95b:81180
- Pi, So-Young *see* Jackiw, Roman, (95g:81003)
- Pusz, W. (with Woronowicz, S. L.) Unitary representations of quantum Lorentz group. (English summary) (see 95f:22004)
- Rothe, Heinz J. ★ Lattice gauge theories. 95a:81194
- Rothe, Klaus D. *see* Abdalla, Elcio; et al., 95c:81189
- Rowe, David J. Applications of $Sp(3, \mathbb{R})$ in nuclear physics. (English summary) 95i:81280
- Schroock, F. E., Jr. Advantages of quantum mechanics on phase space. (English summary) 95a:81013
- Schürmann, Michael ★ White noise on bialgebras. 95i:81128
- Schwarz, Albert S. ★ Quantum field theory and topology. 95c:81085
- Schweigert, Christoph Poincaré polynomials and level rank dualities in the $N = 2$ coset construction. (English and Russian summaries) 95b:81093
- Semenoff, Gordon W. *see* Eliezer, D., 95c:81152
- Shifman, M. A. Quasi-exactly-solvable spectral problems and conformal field theory. (English summary) 95i:81039
- Sierra, Germán *see* Berkovich, Alexander; et al., 95c:82017
- Smirnov, F. A. ★ Form factors in completely integrable models of quantum field theory. 95a:81254
- Solomon, Allan I. (with Birman, Joseph L.) Spectrum generating q -algebras for anyons. (English summary) (see 95g:81003)
- Subbotin, A. V. (with Fainberg, V. Ya.) Stochastic quantization and gauge-invariant renormalizability. (Russian. Russian summary) 95g:81099
- Sukhatme, Uday P. *see* Cooper, Fred; et al., 95m:81055
- Teotônio Sobrinho, P. *see* Balachandran, A. P., 95b:81168
- Toomire, Bruce V. *see* Lange, Horst R.; et al., 95i:81132
- Wada, Morihiro *see* Egawa, Hiroshi S.; et al., 95b:81084
- Wald, Robert M. ★ Quantum field theory in curved spacetime and black hole thermodynamics. (English summary) 95i:81176
- Wehrhahn, Rodolfo Francisco Scattering with symmetry as the interaction. 95m:81215
- de Wild Propitius, Mark *see* Bais, F. Alexander, 95b:81056
- Woronowicz, S. L. *see* Pusz, W., (95f:22004)
- (Yankovskii, E. M.) *see* Schwarz, Albert S., 95c:81085
- Zav'yalov, O. I. Homogeneous differential renormalization. Momentum representation. (English and Russian summaries) 95m:81136
- Zweifel, Paul F. *see* Lange, Horst R.; et al., 95i:81132

81-03 Historical (must also be assigned at least one classification number from Section 01)

- (Bibol, Michel) *see* Erwin Schrödinger, 95j:81006
- (Bohr, Niels) *see* Petruccioli, Sandro, 95k:81002
- Bonk, Thomas Bemerkungen zur Interpretation, Bestätigung und Progressivität der frühen Matrizenmechanik. (English summary) [Remarks on interpretation, confirmation and progressiveness of early matrix mechanics]
- Clauser, John F. Early history of Bell's theorem: theory and experiment. (English summary) (see 95a:81002)
- (Darrigol, Olivier) *see* Erwin Schrödinger, 95j:81006
- (Dyson, Freeman J.) *see* Schweber, Silvan S., 95c:81003
- (Feynman, Richard Phillips) *see* Schweber, Silvan S., 95c:81003
- (Lee, T. D.) *see* Marshak, Robert E., 95b:81004
- Marshak, Robert E. ★ Conceptual foundations of modern particle physics. (English summary) 95b:81004
- Martins, Roberto Cintra Planck and the birth of quantum mechanics: suggestions for the study of recent historical factors. (see 95b:00007)
- (McGilvray, Ian) *see* Petruccioli, Sandro, 95k:81002
- Petruccioli, Sandro ★ Atoms, metaphors and paradoxes. (English summary) 95k:81002
- (Schrödinger, Erwin) *see* Erwin Schrödinger, 95j:81006
- Schweber, Silvan S. ★ QED and the men who made it: Dyson, Feynman, Schwinger, and Tomonaga. 95c:81003
- (Schwinger, Julian) *see* Schweber, Silvan S., 95c:81003
- (Tomonaga, Sin-iti) *see* Schweber, Silvan S., 95c:81003

Items listed otherwise than by author

Biography:

- Dyson, Freeman J. *see* Schweber, Silvan S., 95c:81003
- Feynman, Richard Phillips *see* Schweber, Silvan S., 95c:81003
- Schrödinger, Erwin ★ Erwin Schrödinger. 95j:81006
- Schwinger, Julian *see* Schweber, Silvan S., 95c:81003
- Tomonaga, Sin-iti *see* Schweber, Silvan S., 95c:81003

Colloquium:

- Erwin Schrödinger: Philosophy and the Birth of Quantum Mechanics ★ Erwin Schrödinger. 95j:81006
- Erwin Schrödinger ★ Erwin Schrödinger. 95j:81006
- Paris ★ Erwin Schrödinger. 95j:81006

Items with secondary classifications in 81-03

- Belloni, L. On Fermi's route to Fermi-Dirac statistics. (English and Italian summaries) 95d:8201b
- Berry, Michael Victor Pancharatnam, virtuoso of the Poincaré sphere: an appreciation.

- Bonk, Thomas Why has de Broglie's theory been rejected? (English summary) 95s:81005
 (Brown, Laurie M.) see Most of the good stuff, 95s:01023
 (Emch, Gérard G.) see Wigner, Eugene Paul, 95m:01023
 (Feynman, Richard Phillips) see Most of the good stuff, 95s:01023
 Flores, Jorge (with Frank, Alejandro; Seligman, Thomas H.) Group theory and the harmonic oscillator: the work of Marcos Moshinsky. 95j:01030
 Frank, Alejandro see Flores, Jorge; et al., 95j:01030
 Fritzsche, Harald ★ An equation that changed the world. 95g:00017
 Gerasimenko, V. I. (with Malyshev, P. V.; Rebenko, A. L.) On D. Ya. Petrina's work in contemporary mathematical physics. (Ukrainian. English and Ukrainian summaries)
 Giuliani, Giuseppe (with Marazzini, Paolantonio) The Italian physics community and the crisis of classical physics: new radiations, quanta and relativity (1896-1925). (English summary) 95s:01025
 (von Helmholtz, Hermann) see Mulligan, Joseph F., 95h:01026
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 (Mehra, Jagdish) see Wigner, Eugene Paul, 95m:01023
 (Moshinsky, Marcos) see Flores, Jorge; et al., 95j:01030
 Mukunda, N. Dirac, Harish-Chandra and the unitary representations of the Lorentz group. 95s:01018
 — Bose statistics—before and after. 95d:82001a
 Mulligan, Joseph F. Max Planck and the "black year" of German physics. (English summary) 95h:01026
 (Pancharatnam, S.) see Berry, Michael Victor
 Pešić, P. D. Euclidean hyperspace and its physical significance. (English summary) 95s:81011
 (Petrina, D. Ya.) see Gerasimenko, V. I.; et al.
 Quirós, Mariano Field theory at finite temperature and phase transitions. (English summary) 95j:81233
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 (Rigden, John S.) see Most of the good stuff, 95s:01023
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 (Tolar, J.) see Zhang, Dian Zhou
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 (Wightman, Arthur S.) see Wigner, Eugene Paul, 95m:01023
 Wigner, Eugene Paul ★ The collected works of Eugene Paul Wigner. Part B. Historical, philosophical, and socio-political papers. Vol. VI. 95m:01023
 (Yang, Chen Ning) see Zhang, Dian Zhou
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Anniversary:

- Death of Hertz, Heinrich Rudolf see Mulligan, Joseph F., 95h:01026
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Bibliography:

- Wigner, Eugene Paul see Wigner, Eugene Paul, 95m:01023

Biography:

- Feynman, Richard Phillips ★ "Most of the good stuff". 95s:01023

Collected Works:

- Wigner, Eugene Paul see Wigner, Eugene Paul, 95m:01023
 Most of the good stuff ★ "Most of the good stuff". 95s:01023
 Physics and our view of the world ★ Physics and our view of the world.

Symposium:

- Physics and our View of the World ★ Physics and our view of the world.

81-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 81-04

- Abolhassani, M. R. (with Ardalan, Farhad) A unified scheme for modular invariant partition functions of WZW models. (English summary) 95g:81167
 Agam, Oded (with Fishman, Shmuel) Semiclassical criterion for scars in wave functions of chaotic systems. (English summary) 95s:81028
 Ardalan, Farhad see Abolhassani, M. R., 95g:81167
 Aurich, R. (with Sieber, M.) An exponentially increasing semiclassical spectral form factor for a class of chaotic systems. (English summary) 95g:81169
 Bantay, P. Algebraic aspects of orbifold models. (English summary) 95g:81169
 Bao, Gang (with Dobson, David C.) Second harmonic generation in nonlinear optical films. (English summary) 95s:81310
 Billing, G. D. Quantum-classical methods. (English summary) (see 95s:81178)
 Boorstein, Joshua (with Kutasov, David) Symmetries and mass splittings in QCD₂ coupled to adjoint fermions. (English summary) 95s:81194
 Bowick, Mark (with Falcioni, Marco; Harris, Geoffrey R.; Marinari, Enzo) Two Ising models coupled to two-dimensional gravity. (English summary) 95s:81160a
 — (with Falcioni, Marco; Harris, Geoffrey R.; Marinari, Enzo) Erratum: "Two Ising models coupled to two-dimensional gravity". 95s:81160b
 Brandt, Siegmund (with Dahmen, Hans Dieter) ★ Quantum mechanics on the personal computer. (English summary) 95a:81001
 Cooper, Fred (with Dawson, John; Shepard, Harvey) SUSY-based variational method for the anharmonic oscillator. (English summary) 95a:81042
 Crater, Horace W. A Padé extrapolated inverse power method for coupled Schrödinger-like equations applied to the two-body relativistic bound state problem in quantum electrodynamics. (English summary)

- Dahmen, Hans Dieter see Brandt, Siegmund, 95a:81001
 Dawson, John see Cooper, Fred; et al., 95a:81042
 Dobson, David C. see Bao, Gang, 95s:81310
 Fack, V. Numerical methods for solving one-dimensional and radial Schrödinger equations. (English and Dutch summaries) 95s:81020
 Falcioni, Marco see Bowick, Mark; et al., 95s:81160a and 95s:81160b
 Fishman, Shmuel see Agam, Oded, 95s:81028
 Fujitsu, Akira ope.math: operator product expansions in free field realizations of conformal field theory. (English summary) 95s:81064
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 Hejhal, Dennis A. (with Rackner, Barry N.) On the topography of Maass waveforms for PSL(2, Z). (English summary) 95f:11037
 Ji, Chueng-Ryong see Pang, Alex C.-Y.
 Kaeding, Thomas A. Pascal program for generating tables of SU(3) Clebsch-Gordan coefficients. (English summary)
 Karriein, R. (with Kleinert, Hagen) Precise variational tunneling rates of anharmonic oscillator for $g < 0$. (English summary) 95a:81064
 Khamitov, I. M. Poisson structure of the Liouville field theory. (English summary) 95s:81132
 Kleinert, Hagen see Karriein, R., 95a:81064
 Kotera, Masatoshi Calculation of electron scattering cross section in a central potential based on the relativistic wave equation. (Japanese. English summary)
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 Pang, Alex C.-Y. (with Ji, Chueng-Ryong) A spinor technique in symbolic Feynman diagram calculation. (English summary)
 Prosen, Tomaž Numerical demonstration of the semiclassical matrix element probability distribution between integrability and chaos. (English summary)
 Rackner, Barry N. see Hejhal, Dennis A., 95f:11037
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 Shimizu, Yasushi (with Shudo, Akira) Statistical properties of eigenfunctions for quantum billiards with and without positive Lyapunov exponent. (English summary) 95j:81067
 Shudo, Akira see Shimizu, Yasushi, 95j:81067
 Sieber, M. see Aurich, R.
 Witwit, M. R. M. Energy levels of double-well potentials in a three-dimensional system. (English summary) 95j:81042

81-06 Proceedings, conferences, collections, etc.

- (Alekseev, A. Yu.) see Integrable models and strings, 95f:81003
 (Baulieu, Laurent) see Quantum field theory and string theory, 95i:81003
 (Black, Truman D.) see Foundations of quantum mechanics, 95a:81002
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 (Scully, Marian O.) see Foundations of quantum mechanics, 95a:81002
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 (Windey, Paul) see Quantum field theory and string theory, 95i:81003
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- Moshinsky, Marcos ★ Symmetries in physics. 95c:81002

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- Piron, Constantin ★ [Special issue dedicated to Constantin Piron on the occasion of his sixtieth birthday]. 95f:81005
 — ★ [Special issue dedicated to Constantin Piron on the occasion of his sixtieth birthday]. 95f:81006
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- Blossin ★ Mathematical results in quantum mechanics. 95g:81002
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 Santa Fe, NM ★ Foundations of quantum mechanics. 95a:81002
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 (Brown, J. David) see Proceedings: Cornelius Lanczos Conference, 95e:00039
 (Charap, John M.) see Geometry of constrained dynamical systems, 95i:58003
 (Chu, Moody T.) see Proceedings: Cornelius Lanczos Conference, 95e:00039
 (Darrigol, Olivier) see Erwin Schrödinger, 95j:81006
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 (Lanczos, Cornelius) see Proceedings: Cornelius Lanczos Conference, 95e:00039
 (Lepowsky, James) see Mathematical aspects of conformal and topological field theories and quantum groups, 95e:00035
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 (Penner, Robert) see Perspectives in mathematical physics, 95i:00034
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 — ★ Nonlinear evolution equations and dynamical systems. 95g:00027
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 Biography:
 Schrödinger, Erwin ★ Erwin Schrödinger. 95j:81006
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 Schroer, Bert ★ Workshop on Algebraic Quantum Field Theory and Jones Theory. 95m:81120
 Cambridge ★ Geometry of constrained dynamical systems. 95i:58003
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 Erwin Schrödinger: Philosophy and the Birth of Quantum Mechanics ★ Erwin Schrödinger. 95j:81006
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 Noncompact Lie groups and some of their applications ★ Noncompact Lie groups and some of their applications. 95f:22004
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 — ★ Nonlinear evolution equations and dynamical systems. 95g:00027

- Paris ★ Erwin Schrödinger. 95j:81006
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 San Antonio, TX ★ Noncompact Lie groups and some of their applications. 95f:22004
 Some basic problems of field theory ★ Ba no riron no kisoteki sho mondai. (Japanese) [Some basic problems of field theory] 95m:81118
 South Hadley, MA ★ Mathematical aspects of conformal and topological field theories and quantum groups. 95c:00035
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 White Noise Analysis and Quantum Probability Theory ★ Howaito noizu kaiseki to ryōshi kakuritsu ron. [White noises analysis and quantum probability theory] 95m:00017
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 Spectral and Inverse Spectral Theory ★ Spectral and inverse spectral theory. 95j:47003

81-08 Computational methods

- Adomian, George A. (with Efinger, H. J.) Analytic solutions for time-dependent Schrödinger equations with linear or nonlinear Hamiltonians. 95g:81004
 Bhattacharyya, Satadal (with Das, Tapan Kumar²) An efficient numerical algorithm for calculation of matrix elements of trinucleon system with realistic potentials. (English summary)
 Cederbaum, L. S. see Meyer, Hans-Dieter; et al., (95c:81178)
 Corey, G. C. (with Tromp, J. W.; Lemoine, D.) Fast pseudospectral algorithm in curvilinear coordinates. (English summary) (see 95c:81178)
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 Kosloff, R. The Fourier method. (English summary) (see 95c:81178)
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 Meyer, Hans-Dieter (with Manthe, U.; Cederbaum, L. S.) The multi-configuration Hartree approach. (English summary) (see 95c:81178)
 Pryce, John D. Efficient, reliable computation of resonances of the one-dimensional Schrödinger equation. (English summary) 95b:81006
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 Aquilanti, Vincenzo (with Cavalli, Simonetta; Monnerville, M.) The hyperquantization algorithm: the use of discrete analogs of hyperspherical harmonics for reactive scattering. (English summary) (see 95c:81178)
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 Fassari, Silvestro (with Inglesse, Gabriele) On the spectrum of the harmonic oscillator with a δ -type perturbation. (English summary) 95j:81241
 Feagin, James M. ★ Quantum methods with Mathematica. (English summary) 95m:81002
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 Frolov, A. M. (with Smith, Vedene H., Jr.; Komasa, Jacek) On the algebraic solution of the nonrelativistic three-body problem: bound states. (English summary) 95a:81043

- Goffand, Yu. A. A special representation of a quantum action functional. (English summary) 95f:81061
 Hoffman, Gary G. Atom-centered functions in the optimized Thomas-Fermi theory. (English summary) 95j:81248
 Hrgović, Hroje Quantum mechanics on a space-time lattice using path integrals in a Minkowski metric. (English summary) 95c:81129
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 Jiménez, Salvador Derivation of the discrete conservation laws for a family of finite difference schemes. (English summary) 95m:65146
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- (Shishkova, M. A.) *see* Maslov, V. P. 95m:58126
- Shudo, Akira (with Ikeda, Kensuke) Toward the classical understanding of quantum chaotic phenomena—dynamical localization and chaotic tunneling. (English summary) 95k:81034
- Sjöstrand, Johannes Evolution equations in a large number of variables. 95h:35094
- Smilansky, Uzy *see* Boasman, P. A., 95d:58050 and Dietz, Barbara, 95f:81024

- (Sosinski, A. B.) *see* Maslov, V. P., 95m:58126
- Spinel, M. C. Application of complex canonical point transformations to linear second-order differential equations. (English summary) 95f:81048
- Sukhatme, Uday P. *see* De, R.; et al., 95g:81042
- Szeredi, T. (with Lefebvre, J. H.; Goodings, D. A.) Studies of Bogomolny's semiclassical quantization of integrable and nonintegrable systems. (English summary) 95e:81051
- Takei, Yoshitsugu On exact WKB analysis for Painlevé equations. (English summary) 95m:34098
- *see also* Aoki, Takashi; et al., 95a:34085
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- Vorob'ev, Yu. M. (with Itskov, V. M.) Quasi-modes that correspond to conditionally periodic motion of stable type. (Russian) 95b:58058
- Voros, André *see* Saraceno, M., 95m:81048a and 95m:81048b
- Weidenmüller, H. A. *see* Seligman, Thomas H., 95m:81049
- Witwit, M. R. M. Energy levels of double-well potentials in a three-dimensional system. (English summary) 95j:81042
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81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [see also 14D05, 32S40]

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- Delbourgo, R. On parametric and dispersive integrals. (English summary) 95e:81165
- Kleinert, Hagen ★ Pfadintegrale in Quantenmechanik, Statistik und Polymerphysik. (German. German summary) [Path integrals in quantum mechanics, statistics and polymer physics] 95a:81153
- Veltman, Martin J. G. ★ Diagrammatica. (English summary) 95j:81155

81Q40 Bethe-Salpeter and other integral equations

- Durand, Bernice (with Durand, Loyal) Erratum: "Analytic solution of the relativistic Coulomb problem for a spinless Salpeter equation" [Phys. Rev. D (3) 28 (1983), no. 2, 396–406; MR 85b:81087]. 95i:81059
- Durand, Loyal *see* Durand, Bernice, 95i:81059

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- Barut, Asim O. (with Saradzhev, F. M.) Relativistic two-body system in $(1+1)$ -dimensional QED. I. On the circle S^1 . (English summary) 95g:81110
- Müller-Kirsten, H. J. W. (with Zhang, Jian Zu) On the consistency of BRST gauge fixing of constrained systems. (English summary) 95k:81080
- Saradzhev, F. M. *see* Barut, Asim O., 95g:81110
- Zhang, Jian Zu *see* Müller-Kirsten, H. J. W., 95k:81080

81Q50 Quantum chaos [see also 58F13]

- Agam, Oded (with Fishman, Shmuel) Quantum eigenfunctions in terms of periodic orbits of chaotic systems. (English summary) 95b:81050a
- (with Fishman, Shmuel) Corrigendum: "Quantum eigenfunctions in terms of periodic orbits of chaotic systems". 95b:81050b
- (with Fishman, Shmuel) Semiclassical criterion for scars in wave functions of chaotic systems. (English summary) 95c:81028
- de Aguiar, M. A. M. *see* Ozorio de Almeida, Alfredo M., 95f:81027
- Alonso, D. (with Gaspard, Pierre) Role of the edge orbits in the semiclassical quantization of the stadium billiard. (English summary) 95f:81023
- Argaman, N. (with Dittes, F. M.; Doron, E.; et al.) Correlations in the actions of periodic orbits derived from quantum chaos. (English summary) 95b:81051
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- Baessens, C. *see* MacKay, R. S., 95g:81039
- Balazs, N. L. *see* Lakshminarayan, Arul, 95i:81061
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- Basilio de Matos, Mario (with Ozorio de Almeida, Alfredo M.) Quantization of Anosov maps. (English summary) 95j:81061
- Bellomo, Paolo (with Uzer, T.) Quantum scars and classical ghosts. (English summary) 95j:81062
- Benito, R. M. *see* Borondo, F.; et al., (95i:58004)
- Berry, Michael Victor Evanescent and real waves in quantum billiards and Gaussian beams. (English summary) 95d:81026
- (with Keating, Jonathan Peter) Persistent current flux correlations calculated by quantum chaos. (English summary) 95j:81063
- Boasman, P. A. Semiclassical accuracy for billiards. (English summary) 95a:81072
- Borondo, F. (with de Polavieja, G. G.; Benito, R. M.) Scars in groups of eigenfunctions. (see 95i:58004)
- Casati, Giulio (with Graham, Robert; Guarneri, Italo; Izrailev, F. M.) Tunneling between localized states in classically chaotic systems. (English summary)
- Cohen, Doron Noise, dissipation and the classical limit in the quantum kicked-rotator problem. (English summary) 95g:81037
- Cvitanović, Predrag (with Rosenqvist, Per E.; Vattay, Gábor; Rugh, Hans Henrik) A Fredholm determinant for semiclassical quantization. (English summary) 95g:81038
- Dietz, Barbara (with Smilansky, Uzy) A scattering approach to the quantization of billiards—the inside-outside duality. (English summary) 95f:81024
- Dittes, F. M. *see* Argaman, N.; et al., 95b:81051
- Doron, E. *see* Argaman, N.; et al., 95b:81051
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- Fishman, Shmuel Quantum localization. 95a:81073
- *see also* Agam, Oded, 95b:81050a; 95b:81050b and 95c:81028
- Fullin, A. (with Kozarzewski, L.) Chaos and inertial effects in an anharmonic oscillator. (English summary) 95f:81025
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- Guarneri, Italo *see* Casati, Giulio; et al.
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- Heiss, W. D. *see* Kotzé, A. A., 95c:81046
- Hernández, E. S. (with Jezek, D. M.) Flow bifurcations for an $SU(1,1)$ kicked top in the semiclassical representation. (English summary) 95d:81028
- Hurt, Norman E. Bakers and cats: a review of simple systems in quantum chaos. (English summary) 95j:81065
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- Jung, Christof Integrability of the S -matrix interpreted by motion in a projective space. (English summary) 95e:81045
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- Keating, Jonathan Peter The Riemann zeta-function and quantum chaos. 95d:81029
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- *see also* Berry, Michael Victor, 95j:81063
- Kotzé, A. A. (with Heiss, W. D.) The quantum spectrum and the distribution of exceptional points: the hydrogen atom in a strong magnetic field. (English summary) 95c:81046
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- *see also* Majewski, W. A., 95c:81049
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- Liboff, Richard L. Nodal-surface conjectures for the convex quantum billiard. (English summary) 95c:81048
- MacKay, R. S. (with Baessens, C.) A new paradigm in quantum chaos: Aubry's theory of equilibrium states for the adiabatic Holstein model. 95g:81039
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- von Oppen, Felix Exact distribution of eigenvalue curvatures of chaotic quantum systems. (English summary) 95c:81029
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- *see also* Basilio de Matos, Mario, 95j:81061
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- Primack, Harel (with Smilansky, Uzy) Quantal consequences of perturbations which destroy structurally unstable orbits in chaotic billiards. (English summary) 95f:81028
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- Provost, D. *see* Baranger, M.; et al., 95m:81047
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- Robbins, J. M. The geometric phase for chaotic unitary families. (English summary) 95a:81075
- Robnik, Marko *see* Li, Baowen, 95c:81047 and Prosen, Tomaž
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- Rugh, Hans Henrik *see* Cvitanović, Predrag; et al., 95g:81038
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- Schaich, M. *see* Schweizer, W.; et al., 95b:81054
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- Šeba, Petr** Irregular scattering in one-dimensional periodically driven systems. (English summary) (see 95g:81002)
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- Spiller, T. P.** (with Ralph, J. F.) The emergence of chaos in an open quantum system. (English summary) 95m:81050
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- Ellinas, Demosthenes** Anharmonicity deformation and curvature in supersymmetric potentials. (English summary) **95k:81036**
- Farrelly, David** (with Howard, James Edward; Uzer, T.) Integrable and chaotic behaviour in the Paul trap and the hydrogen atom in a generalized van der Waals potential. (see **95i:58004**)
- Gangopadhyaya, Asim** (with Panigrahi, Prasanta K.; Sukhatme, Uday P.) Analysis of inverse-square potentials using supersymmetric quantum mechanics. (English summary) **95b:81057**
- Grant, Aaron K.** (with Rosner, Jonathan L.) Supersymmetric quantum mechanics and the Korteweg-de Vries hierarchy. (English summary) **95j:81069**
- Hirokane, Tohru** (with Miyajima, Mitsuharu; Yasui, Yukinori) Witten complex and supersymmetric quantum mechanics on $SO(3)$. (English summary) **95c:81033**
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- Bogolyubov, N. N. (with Shirkov, D. V.) \star Квантовые поля. (Russian. English and Russian summaries) [Quantum fields] **95j:81001**
- (Fehér, László) see Topological quantum field theories and geometry of loop spaces, **95c:58005**
- (Feldman, Joel S.) see Mathematical quantum theory. I. Field theory and many-body theory, **95g:81001**
- (Froese, R.) see Mathematical quantum theory. I. Field theory and many-body theory, **95g:81001**
- Hwang, W.-Y. Pauchy see Wu, Ta Yu, **95c:81002**
- (Lee, T. D.) see Wu, Ta Yu, **95c:81002**
- (Levy, Silvio V. F.) see Schwarz, Albert S., **95c:81085**
- (Rosen, L. M.) see Mathematical quantum theory. I. Field theory and many-body theory, **95g:81001**
- Schwarz, Albert S. \star Topology for physicists. **95h:81001**
- Shirkov, D. V. see Bogolyubov, N. N., **95j:81001**
- (Stipsicz, András) see Topological quantum field theories and geometry of loop spaces, **95c:58005**
- (Szenthe, János) see Topological quantum field theories and geometry of loop spaces, **95c:58005**
- Wu, Ta Yu (with Hwang, W.-Y. Pauchy) \star Relativistic quantum mechanics and quantum fields. (English summary) **95c:81002**
- Zinn-Justin, J. \star Quantum field theory and critical phenomena. **95i:81001**

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- Budapest \star Topological quantum field theories and geometry of loop spaces. **95c:58005**

Conference:

- Geometry and Analysis of Loop Spaces \star Topological quantum field theories and geometry of loop spaces. **95c:58005**
- Mathematical quantum theory. I. Field theory and many-body theory \star Mathematical quantum theory. I. Field theory and many-body theory. **95g:81001**

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- Geometry and Analysis of Loop Spaces \star Topological quantum field theories and geometry of loop spaces. **95c:58005**

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- Mathematical Quantum Theory \star Mathematical quantum theory. I. Field theory and many-body theory. **95g:81001**

- Topological quantum field theories and geometry of loop spaces \star Topological quantum field theories and geometry of loop spaces. **95c:58005**

- Vancouver, BC \star Mathematical quantum theory. I. Field theory and many-body theory. **95g:81001**

81T05 Axiomatic quantum field theory; operator algebras

- Acerbi, F. (with Morchio, G.; Strocchi, F.) Nonregular representations of CCR algebras and algebraic fermion bosonization. (English summary) **95f:81055**
- Bannier, Ulrich Intrinsic algebraic characterization of space-time structure. (English summary) **95j:81131**
- Bollini, C. G. (with Oxman, L. E.; Rocca, Mario Carlos) Space of test functions for higher-order field theories. (English summary) **95h:81050**
- Borchers, H.-J. A noncommuting realization of Minkowski space. (English summary) **95f:81056**
- (with Yngvason, Jakob) Transitivity of locality and duality in quantum field theory. Some modular aspects. (English summary) **95k:81086**
- Buchholz, Detlev (with Summers, Stephen J.) An algebraic characterization of vacuum states in Minkowski space. (English summary) **95b:81127**
- Coester, F. (with Polyzou, W. N.) Vacuum structures in Hamiltonian light-front dynamics. (English summary) **95a:81157**
- Doplicher, Sergio (with Fredenhagen, Klaus; Roberts, John E.) Spacetime quantization induced by classical gravity. (English summary) **95c:81134**
- Fredenhagen, Klaus The mathematical frame of quantum field theory. (see **95g:00020**)
- see also Doplicher, Sergio; et al., **95c:81134**

- Grigore, Dan Radu Free fields for any spin in 1 + 2 dimensions. (English summary) 95i:81142
- Hannibal, Ludger Representations of the full Lorentz group in quantum field theory. (English summary) 95b:81128
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- Olesen, Martin Algebraic field theory on curved manifolds. (English summary) 95i:81143
- Oxman, L. E. see Bollini, C. G.; et al., 95b:81050
- Pedersen, J. (with Segal, Irving; Zhou, Zheng-Fang) Nonlinear quantum fields in ≥ 4 dimensions and cohomology of the infinite Heisenberg group. (English summary) 95a:81158
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- Reyes Martinez, J. R. Theory of superselection sectors for generalized Ising models. (English summary) 95g:81106
- Roberts, John E. Goldstone's theorem revisited. 95d:81078
- see also Doplicher, Sergio; et al., 95e:81134
- Rocca, Mario Carlos see Bollini, C. G.; et al., 95b:81050
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- (Schroer, Bert) see Workshop: Algebraic Quantum Field Theory and Jones Theory, 95m:81120
- Segal, Irving see Pedersen, J.; et al., 95a:81158
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- Towards a generalized distribution formalism for gauge quantum fields. (English summary) 95k:81088
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- Verch, Rainer Nuclearity, split property, and duality for the Klein-Gordon field in curved spacetime. (English summary) 95e:81136
- Local definiteness, primarity and quasiequivalence of quasifree Hadamard quantum states in curved spacetime. (English summary) 95a:81159
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- Yngvason, Jakob A note on essential duality. (English summary) 95g:81108
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- Yur'ev, D. V. Algebraic structures of quantum projective field theory related to fusion and braiding. Hidden additive weight. (English summary) 95e:81137
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- Zhou, Zheng-Fang see Pedersen, J.; et al., 95a:81158

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Birthday:

Schroer, Bert ★ Workshop on Algebraic Quantum Field Theory and Jones Theory. 95m:81120

Workshop:

Algebraic Quantum Field Theory and Jones Theory ★ Workshop on Algebraic Quantum Field Theory and Jones Theory. 95m:81120

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- Baumann, Klaus Vector and ray representations of the Euclidean group $E(2)$. (English summary) 95m:81065
- Blank, Jiří (with Exner, Pavel; Havlíček, Miloslav) ★ Hilbert space operators in quantum physics. 95f:81001
- Butterfield, Jeremy see Muller, F. A., 95f:81011
- Carey, A. L. (with Hannabuss, K. C.; Murray, Michael K.) Free fields on Riemann surfaces and spectral curves of the chiral Potts model. 95a:81185
- Dubisch, R. J. Topology in quantum theory: infrared topology. (English and French summaries) 95e:81234
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- Fröhlich, Jürg (with Kerler, Thomas) ★ Quantum groups, quantum categories and quantum field theory. 95f:81042
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- Gawędzki, Krzysztof see Fröhlich, Jürg, 95m:81178
- Gielera, Roman (with Jakóbczyk, L.; Olkiewicz, R.) Reconstruction of Kubo-Martin-Schwinger structure from Euclidean Green functions. (English summary) 95d:82008
- (with Jakóbczyk, L.; Olkiewicz, R.) W^* -KMS structure from multi-time Euclidean Green functions. (English summary) 95i:82068
- Grosse, Harald (with Maderner, Walter) On the classical origin of the fermionic Schwinger term. (English summary) 95i:58020
- Hannabuss, K. C. see Carey, A. L.; et al., 95a:81185
- Hannibal, Ludger On quantum field theory with invariant parameter. (English summary) 95j:81139
- Havlíček, Miloslav see Blank, Jiří; et al., 95f:81001

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- Kerler, Thomas see Fröhlich, Jürg, 95f:81042
- Longo, Roberto Problems on von Neumann algebras suggested by quantum field theory. (English summary) (see 95i:46002)
- Maderner, Walter see Grosse, Harald, 95i:58020
- Muller, F. A. (with Butterfield, Jeremy) Is algebraic Lorentz-covariant quantum field theory stochastic Einstein local? (English summary) 95f:81011
- Murray, Michael K. see Carey, A. L.; et al., 95a:81185
- Olkiewicz, R. see Gielera, Roman; et al., 95d:82008 and 95i:82068
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- Streeter, R. F. Gauge groups, anomalies and non-abelian cohomology. (English summary) 95i:81244
- Vecsernyés, Peter On the quantum symmetry of the chiral Ising model. (English summary) 95e:81213
- Vladimirov, V. S. (with Zharinov, V. V.; Sergeev, A. G.) Bogolyubov's edge-of-the-wedge theorem, its development and applications. (Russian) 95m:32011
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- Arai, Asao Supersymmetric extension of quantum scalar field theories. (English summary) 95d:81080
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- Billionnet, Claude (with Renouard, Pierre) Analyticity and Borel summability of the φ^4 models. I. The dimension $d = 1$. (English and French summaries) 95b:81051
- Crutchfield, William Y. (with Bell, John B.) Instabilities of the Skyrme model. (English summary) 95a:81160
- Dimock, J. (with Hurd, T. R.) Construction of the two-dimensional sine-Gordon model for $\beta < 8\pi$. (English summary) 95e:81086
- Frochaut, Etienne The bound-states in quantum field theory: review of some analytic problems raised by the variational perturbation method. (English summary) 95a:81161
- Zero-time vectors in the domain of the Hamiltonian in quantum field theory as application of a programme for nearly Gaussian processes. (English summary) 95e:81138
- Grosse, Harald (with Maderner, Walter; Reitberger, Christian) Schwinger terms and cyclic cohomology for massive $(1+1)$ -dimensional fermions and Virasoro algebras. (English summary) 95b:81130
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- Shatashvili, S. L. Correlation functions in the Itzykson-Zuber model. (English summary) 95e:81140
- Tatsunay, P. I. Solution of equations of a vector-scalar model of quantum field theory and the computation of the Wightman functional. (Ukrainian)
- Wiedemann, Urs Achim Nondifferentiability of the effective potential. (English summary) 95b:81131
- Wightman, Arthur S. Dual potentials of free Dirac currents as exactly soluble models. 95j:81136

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- Albeverio, Sergio (with Kusuoka, Shigeo) A basic estimate for two-dimensional stochastic holonomy along Brownian bridges. (English summary) 95j:60076
- Ashtekar, Abhay Overview and outlook. 95i:83017
- Baez, John C. Generalized measures in gauge theory. (English summary) 95e:58033
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- Derkachev, S. E. (with Pis'mak, Yu. M.) Diffeomorphism symmetry in φ^4 field theory. (English summary) 95k:81097
- Dimock, J. see Brydges, David C.; et al., 95k:81096
- Dolan, Brian P. A geometrical interpretation of renormalization group flow. (English summary) 95b:81143
- Hannibal, Ludger On quantum field theory with invariant parameter. (English summary) 95j:81139
- Hida, Takeyuki (with Kuo, Hui-Hsiung; Potthoff, Jürgen; Streit, Ludwig) ★ White noise. (English summary) 95f:60046
- Hurd, T. R. see Brydges, David C.; et al., 95k:81096
- Ignatyuk, I. A. (with Malyshev, V. A.; Sidoravicius, Vladas) Convergence of the stochastic quantization method. I. (Russian) 95c:81099
- Keller, Georg The perturbative construction of Symanzik's improved action for Φ_2^4 and QED_4 . (English summary) 95a:81180
- Local Borel summability of Euclidean Φ_2^4 : a simple proof via differential flow equations. (English summary) 95a:81181
- (with Kopper, Christoph) Perturbative renormalization of massless φ_2^4 with flow equations. (English summary) 95b:81144
- Kopper, Christoph see Keller, Georg, 95b:81144

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- Acosta Avalos, D. *see* Torres del Castillo, G. F., 95k:81091
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- Arponen, J. S. (with Bishop, R. F.) Independent-cluster parametrizations of wave functions in model field theories. II. Classical mappings and their algebraic structure. (English summary) 95d:81157
 — (with Bishop, R. F.) Independent-cluster parametrizations of wave functions in model field theories. III. The coupled-cluster phase spaces and their geometrical structure. (English summary) 95d:81158
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 Cabra, D. C. (with Moreno, Enrique Francisco; Naón, C.) Thirring model with non-conserved chiral charge. (English summary) 95c:81195
 Cangemi, D. (with Jackiw, Roman) Quantal analysis of string-inspired lineal gravity with matter fields. (English summary) 95i:81239
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 Choudhury, Anindya Ghose (with Roy Chowdhury, A.) Poisson structure and classical $(r-s)$ matrix for $SO(3)$ symmetric sine-Gordon model. (English summary) 95c:58078
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 Fosco, C. D. (with Matsuyama, Toyoki) Canonical structure of the non-linear σ -model in a polynomial formulation. (English summary) 95m:81177
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- Okano, Keisuke Renormalization in stochastic quantization and supersymmetry. **95c:81076**
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- Park, Mu-In (with Park, Young-Jai) Operator ordering problem of the nonrelativistic Chern-Simons theory. (English summary) **95i:81164**
- Park, Young-Jai see Park, Mu-In, **95i:81164**
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- Cognola, Guido (with Kirsten, Klaus; Zerbini, Sergio) One-loop effective potential on hyperbolic manifolds. (English summary) **95a:81174**
- Elizalde, Emilio Zeta-function regularization is uniquely defined and well. (English summary) **95j:81156**
- Gibbs, Richard L. (with Mokhtari, Soussan) The eta function in BF topological field theory. (English summary) **95i:81167**
- Guo, Han Ying see Wang, Zhong Hua
- Holzhey, Christoph (with Larsen, Finn; Wilczek, Frank) Geometric and renormalized entropy in conformal field theory. (English summary) **95g:81126**
- Huang, Suzhou (with Levi, A. R.) Non-abelian variation on the Savvidy vacuum of the Yang-Mills gauge theory. (English summary) **95c:81092**
- Huang, Wung Hong Conformal transformation of renormalized effective action in curved spacetimes. (English summary) **95j:81157**
- Kehrein, Stefan K. (with Wegner, Franz) The structure of the spectrum of anomalous dimensions in the N -vector model in $4 - \epsilon$ dimensions. (English summary) **95g:81127**
- Kempf, Achim Quantum groups and quantum field theory with nonzero minimal uncertainties in positions and momenta. (English summary) **95m:81137**
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- Schwarz, Albert S. (with Tseytlin, A. A.) Dilation shift under duality and torsion of elliptic complex. (English summary) **95d:81087**
- Suzuki, Hisao Rational scalar field theories on quantum spheres. (English summary) **95e:81162**
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- Brevik, I. (with Skurdal, H.; Sollie, R.) Casimir surface forces on dielectric media in spherical geometry. (English summary) **95i:81269**
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- Cognola, Guido (with Kirsten, Klaus; Vanzo, Luciano) Free and self-interacting scalar fields in the presence of conical singularities. (English summary) **95i:81172**
- Cougo-Pinto, M. V. (with Farina de Souza, Carlos; Segui-Santonja, Antonio J.) Schwinger's method for the massive Casimir effect. (English summary) **95i:81270**
- Dowker, J. S. Functional determinants on spheres and sectors. (English summary) **95j:58175a**
- Erratum: "Functional determinants on spheres and sectors". **95j:58175b**
- Elizalde, Emilio (with Kirsten, Klaus) Topological symmetry breaking in self-interacting theories on toroidal space-time. (English summary) **95a:81187**
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- Fry, M. P. Fermion determinants in static, inhomogeneous magnetic fields. (English summary) **95j:81245**
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- Ball, Richard D. (with Haagensen, Peter E.; Latorre, José I.; Moreno, Enrique Francisco) Scheme independence and the exact renormalization group. (English summary)
- Battle, Guy Wavelet refinement of the Wilson recursion formula. (English summary) **95j:81158**
- Blechnowska, Jadwiga The renormalization group flow in 2D $N = 2$ SUSY Landau-Ginsburg [Ginzburg] models. (English summary) **95b:81142**

- Bonini, M. (with D'Attanasio, M.; Marchesini, Giuseppe) Renormalization group flow for SU(2) Yang-Mills theory and gauge invariance. (English summary) **95d:81088**
- Brydges, David C. (with Dimock, J.; Hurd, T. R.) Applications of the renormalization group. (English summary) **95k:81096**
- Chen, Lin-Yuan (with Goldenfeld, Nigel; Oono, Yoshitsugu) Renormalization group theory for global asymptotic analysis. (English summary) **95d:81089**
- (with Goldenfeld, Nigel; Oono, Yoshitsugu) Erratum: "Renormalization group theory for global asymptotic analysis" [Phys. Rev. Lett. 73 (1994), no. 10, 1311–1315; MR 95d:81089].
- D'Attanasio, M. see Bonini, M.; et al., **95d:81088**
- Derkachev, S. È. (with Pis'mak, Yu. M.) Diffeomorphism symmetry in φ^4 field theory. (English summary) **95k:81097**
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- Higuchi, Saburo (with Itoi, Chigaku; Nishigaki, Shinsuke; Sakai, Norisuke) Renormalization group flow in one- and two-matrix models. (English summary) **95i:81168**
- (with Itoi, Chigaku; Nishigaki, Shinsuke; Sakai, Norisuke) Erratum: "Renormalization group flow in one- and two-matrix models" [Nuclear Phys. B 434 (1995), no. 1–2, 283–318; MR 95i:81168].
- Holovatch, Yu. (with Krokhmal'skii, T.) Compilation of two-point and four-point graphs in field theory in noninteger dimensions. (English summary) **95i:81163**
- Huggett, Nick (with Weingard, Robert) The renormalisation group and effective field theories. (English summary)
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- (with Kopper, Christoph) Perturbative renormalization of composite operators via flow equations. II. Short distance expansion. (English summary) **95a:81179**
- The perturbative construction of Symanzik's improved action for Φ_4^4 and QED₄. (English summary) **95a:81180**
- Local Borel summability of Euclidean Φ_4^4 : a simple proof via differential flow equations. (English summary) **95a:81181**
- (with Kopper, Christoph) Perturbative renormalization of massless φ_4^4 with flow equations. (English summary) **95b:81144**
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- Marchesini, Giuseppe see Bonini, M.; et al., **95d:81088**
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- O'Connor, Denjoe (with Stephens, C. R.) "Environmentally friendly" renormalization. (English summary) **95b:81061a**
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- Rustamov, K. A. Symmetry analysis and some classification results on the renormalization group equation. (English summary) **95f:81063**
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- Tuszyński, J. A. (with Dixon, J. M.; Grundland, A. M.) Nonlinear field theories and non-Gaussian fluctuations for near-critical many-body systems. (English summary) **95g:81131**
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- Adzhemyan, L. Ts. (with Antonov, N. V.; Kim, T. L.) Composite operators, operator expansion and Galilean invariance in the theory of developed turbulence. Infrared corrections to Kolmogorov scaling. (Russian. English and Russian summaries) **95j:76058**
- Antonov, N. V. The renormalization of composite operators, and operator expansion in stochastic hydrodynamics. (Russian. English and Russian summaries) **95h:76076**
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- Benfatto, G. (with Gallavotti, Giovanni; Procacci, A.; Scoppola, B.) Beta function and Schwinger functions for a many fermions system in one dimension. Anomaly of the Fermi surface. (English summary) **95f:82016**
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- Errata: "A remark on the coupling dependence in affine Toda field theories" [Phys. Lett. B 312 (1993), no. 3, 291–298; MR 94f:81143]. (English summary)
- Elizalde, Emilio (with Jacksenae, A. G.; Odintsov, S. D.; Shapiro, I. L.) One-loop renormalization and asymptotic behaviour of a higher-derivative scalar theory in curved spacetime. (English summary) **95c:81095**
- (with Odintsov, S. D.; Romeo, August) Improved effective potential in curved spacetime and quantum matter—higher-derivative gravity theory. (English summary) **95j:81160**
- Ercolessi, E. (with Teotônio Sobrinho, P.; Bimonte, G.) Discretized Laplacians on an interval and their renormalization group. (English summary) **95f:81018**
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- Kawai, Takahiro** (with Stapp, Henry P.) Infrared catastrophe in a massless Feynman function. (English and French summaries) **95e:81166**
- Lam, Chi-Sing** Spinor helicity technique and string reorganization for multiloop diagrams. (English and French summaries) **95g:81132**
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- Braaten, Eric** (with Nieto, Agustin) Asymptotic behavior of the correlator for Polyakov loops. (English summary) **95m:81216**
- Carbon, Steven L.** Sister trajectories and locality in multiloop string scattering. (English summary) **95m:81152**
- Chu, H.** (with Umezawa, H.) Stable quasiparticle picture in thermal quantum field physics. (English summary) **95e:81087**
- Feldman, Joel S.** (with Magnen, Jacques; Rivasseau, Vincent; Trubowitz, Eugene) Fermionic many-body models. **95m:81233**
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- *see also* Gray, Cami; et al., 95k:81163
- Leonhardt, Ulf** (with Paul, H.) Is the Wigner function directly measurable in quantum optics? (English summary) 95g:81230
- (with Vaccaro, John A.) Bell correlations in phase space: application to quantum optics. (English summary)
- Ling, Yin Sheng** (with Zhang, Wei) Supersymmetry and its application in quantum optics. (English summary) 95g:81231
- Lukš, A.** (with Peřinová, V.; Křepelka, J.) State reduction for correlated photons and eigenstates of unitarily and non-unitarily displaced number operator. (English summary) 95k:81165
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— (with Yu, Shen Xi) Nonlinear operators and nonlinear transformations studied via the differential form of the completeness relation in quantum mechanics. (English summary) 95a:81142

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(Scully, Marian O.) *see* Foundations of quantum mechanics, 95a:81002

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Zhao, Xian Geng A closed-form solution of the evolution operator in two-level systems. (English summary) 95c:81183

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— Theory of quantum two-terminal networks. II. Transfer matrices and transmission problems. (Russian. English, Russian and Ukrainian summaries) 95d:81163b

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82-XX Statistical mechanics, structure of matter

82-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Bogolyubov, N. N.) *see* Bogolyubov, N. N., Jr., 95m:82001

Bogolyubov, N. N., Jr. (with Sankovich, D. P.) N. N. Bogolyubov and statistical mechanics. (Russian) 95m:82001

Sankovich, D. P. *see* Bogolyubov, N. N., Jr., 95m:82001

82-01 Instructional exposition (textbooks, tutorial papers, etc.)

Hashitsume, N. *see* Kubo, Ryogo; et al., 95m:82002

Kubo, Ryogo (with Toda, Morikazu; Hashitsume, N.) ★ Statistical physics. II. (English summary) 95m:82002

— *see also* Toda, Morikazu; et al., 95g:82001

Nozières, Philippe Physique statistique. [Statistical physics]

— Physique statistique. [Statistical physics]

Saitō, Nobuhiko *see* Toda, Morikazu; et al., 95g:82001

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(Bardos, Claude) *see* Dautray, Robert, 95e:00001

Cercignani, Carlo (with Pulvirenti, M.) Nonequilibrium problems in many-particle systems. An introduction. (see 95c:82002)

(Cessenat, Michel) *see* Dautray, Robert, 95e:00001

(Craig, Alan) *see* Dautray, Robert, 95e:00001

- Dautray, Robert** (with Lions, Jacques-Louis) ★ Mathematical analysis and numerical methods for science and technology. Vol. 6. 95c:00001
- Gonis, Antonios** ★ Green functions for ordered and disordered systems. (English summary) 95g:82096
- (Kavenoky, Alain)** see **Dautray, Robert**, 95c:00001
- Kraus, Ivo** ★ Struktura a vlastnosti krystalů. (Czech. Czech summary) [Structure and properties of a crystal] 95c:82044
- (Lascaux, Patrick)** see **Dautray, Robert**, 95c:00001
- Lions, Jacques-Louis** see **Dautray, Robert**, 95c:00001
- (Mercier, Bertrand)** see **Dautray, Robert**, 95c:00001
- Nienhuis, Bernard** Correlation functions of solvable models. (English summary) (see 95f:82002)
- (Pironneau, Olivier)** see **Dautray, Robert**, 95c:00001
- Pulvirenti, M.** see **Cercignani, Carlo**, 95c:82002
- Roelly, Sylvie** (with Zessin, Hans) The equivalence of equilibrium principles in statistical mechanics and some applications to large particle systems. (English summary) 95a:82025
- (Scheurer, Bruno)** see **Dautray, Robert**, 95c:00001
- (Sentis, Rémi)** see **Dautray, Robert**, 95c:00001
- (Suzuki, Masuo)** see **Uzunov, D. I.**, 95j:82027
- Uzunov, D. I.** ★ Introduction to the theory of critical phenomena. 95j:82027
- Zessin, Hans** see **Roelly, Sylvie**, 95a:82025
- Zinn-Justin, J.** ★ Quantum field theory and critical phenomena. 95i:81001

82-02 Research exposition (monographs, survey articles)

- Fradkin, Eduardo** ★ Field theories of condensed matter systems. (English summary) 95g:82002
- Pasquier, Vincent** A lecture on the Calogero-Sutherland models. (English summary) 95m:82003
- Simon, Barry** ★ The statistical mechanics of lattice gases. Vol. I. (English summary) 95a:82001

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- Au-Yang, Helen** (with Perk, Jacques H. H.) The chiral Potts models revisited. (English summary) 95j:82008
- Baxter, Rodney James** Solvable models in statistical mechanics, from Onsager onward. (English summary) 95j:82009
- Berkovich, Alexander** (with Gómez, César; Sierra, Germán) Spin-anisotropy commensurate chains. Quantum group symmetries and $N = 2$ SUSY. (English summary) 95c:82017
- Boccara, Nino** Automata network models of interacting populations. (see 95f:82001)
- Bogolyubov, N. M.** (with Izergin, A. G.; Korepin, V. E.) ★ Корреляционные функции интегрируемых систем и квантовый метод обратной задачи. (Russian. Russian summary) [Correlation functions of integrable systems and the quantum inverse problem method] 95j:81240
- see also **Korepin, V. E.**; et al., 95b:81224
- (Bogolyubov, N. N.)** see **Bogolyubov, N. N., Jr.**, 95m:82001
- Bogolyubov, N. N., Jr.** (with Sankovich, D. P.) N. N. Bogolyubov and statistical mechanics. (Russian) 95m:82001
- Cercignani, Carlo** Hyperbolic problems in kinetic theory. (English summary) 95c:82059
- Cerofolini, G. F.** (with Re, N.) The mathematical theory of adsorption on nonideal surfaces. 95g:82038
- Christe, P.** (with Henkel, Malte) ★ Introduction to conformal invariance and its applications to critical phenomena. (English summary) 95k:82012
- Chung, S. G.** Soliton theory for classical statistical mechanics of the massive-Thirring-sine-Gordon model. (English summary) 95i:82005
- Crisanti, Andrea** (with Paladini, G.; Vulpiani, Angelo) ★ Products of random matrices in statistical physics. (English summary) 95d:82031
- Derrida, Bernard** (with Evans, Martin R.) Exact steady state properties of the one-dimensional asymmetric exclusion model. (English summary) 95c:60093
- Dixon, J. M.** see **Tuszyński, J. A.**; et al., 95g:81131
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- Griffeth, David** Self-organization of random cellular automata: four snapshots. (English summary) 95b:82051
- Grundland, A. M.** see **Tuszyński, J. A.**; et al., 95g:81131
- Hara, Takashi** (with Slade, Gordon) Mean-field behaviour and the lace expansion. (English summary) 95d:82033
- Heffer, Bernard** Estimations sur les fonctions de corrélation pour des modèles du type de Kac. [Estimates for correlation functions for Kac-type models] 95f:82009
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- Honerkamp, Josef** (with Römer, Hartmann) ★ Theoretical physics. (English summary) 95m:00008
- Ichimiyagi, Masakazu** Variational principles of irreversible processes. (English summary) 95g:82067
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- Kennedy, Thomas Garrett** The Falicov-Kimball model of interacting electrons. (see 95g:81001)
- Korepin, V. E.** (with Bogolyubov, N. M.; Izergin, A. G.) ★ Quantum inverse scattering method and correlation functions. (English summary) 95b:81224
- see also **Bogolyubov, N. M.**; et al., 95j:81240
- Kotecký, Roman** Geometric representation of lattice models and large volume asymptotics. (English summary) 95b:82012
- Luck, J. M.** Aperiodic structures: geometry, diffraction spectra, and physical properties. (English summary) 95j:82054

- L'vov, V. S.** ★ Wave turbulence under parametric excitation. (English summary) 95m:82091
- Molinari, Luca** Introduction to matrix models and statistical mechanics on random lattices. (English summary)
- Monastyrskii, M. I.** ★ Topology of gauge fields and condensed matter. 95k:81001
- Orlandi, Enza** (with Presutti, Errico) Some rigorous results on phase segregation for stochastic cellular automata. 95a:82097
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- (Parisi, Giorgio)** see **Crisanti, Andrea**; et al., 95d:82031
- Patrascioiu, Adrian** (with Seiler, Erhard) Percolation theory and the phase structure of two-dimensional classical ferromagnets. (English summary) (see 95g:81001)
- Pearce, Paul A.** Recent progress in solving $A-D-E$ lattice models. (English summary) 95c:82006
- Peretto, P.** (with Gordon, Mirta B.; Rodriguez-Girones, M.) A brief account of statistical theories of learning and generalization in neural networks. (see 95a:82002)
- Perk, Jacques H. H.** see **Au-Yang, Helen**, 95j:82008
- (Pertsovskaya, Inna)** see **L'vov, V. S.**, 95m:82091
- Picco, Pierre** On the R.E.M. and the G.R.E.M. (see 95a:82002)
- (Pollack, H.)** see **Honerkamp, Josef**, 95m:00008
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- Römer, Hartmann** see **Honerkamp, Josef**, 95m:00008
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- Slade, Gordon** see **Hara, Takashi**, 95d:82033
- Stratonovich, R. L.** ★ Nonlinear nonequilibrium thermodynamics. II. (English summary) 95c:82044
- Thacker, H. B.** Spin chain deformations, lattice fermion masses, and noncritical Virasoro and Kac-Moody algebras. 95g:82024
- Tuszyński, J. A.** (with Dixon, J. M.; Grundland, A. M.) Nonlinear field theories and non-Gaussian fluctuations for near-critical many-body systems. (English summary) 95g:81131
- Vulpiani, Angelo** see **Crisanti, Andrea**; et al., 95d:82031
- Wadati, Miki** Knot theory and integrable systems. (English summary) 95f:57025
- Wheater, J. F.** Random surfaces: from polymer membranes to strings. (English summary) 95a:82096

82-03 Historical (must also be assigned at least one classification number from Section 01)

- Belloni, L.** On Fermi's route to Fermi-Dirac statistics. (English and Italian summaries) 95d:8201b
- Mukunda, N.** Bose statistics—before and after. 95d:82001a
- Nozières, Philippe** Physique statistique. (French summary) [Statistical physics] — Physique statistique. [Statistical physics] — Physique statistique. [Statistical physics] — Physique statistique. [Statistical physics]
- Rodrigues, Mabel de M.** Notions about crystalline structure in the nineteenth century. (Portuguese) (see 95b:00007)

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- (Bogolyubov, N. N.)** see **Bogolyubov, N. N., Jr.**, 95m:82001
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- Cimberlis, Boris** Einstein's works on thermodynamics (1902-1904) and the statistical mechanics of Gibbs. (Portuguese) (see 95b:00007)
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- (Baake, Michael) *see* Perspectives on solvable models, 95f:82003
- (van Beijeren, H.) *see* Fundamental problems in statistical mechanics, 95f:82002
- (Cercignani, Carlo) *see* Nonequilibrium problems in many-particle systems, 95c:82002
- (Ernst, M. H.) *see* Fundamental problems in statistical mechanics, 95f:82002
- (Goles Ch., Eric) *see* Statistical physics, automata networks and dynamical systems, 95a:82002 and Cellular automata, dynamical systems and neural networks, 95f:82001
- (Grimm, Uwe) *see* Perspectives on solvable models, 95f:82003
- (Martinez, Servet A.) *see* Statistical physics, automata networks and dynamical systems, 95a:82002 and Cellular automata, dynamical systems and neural networks, 95f:82001
- (Mattis, Daniel C.) *see* Many-body problem, 95c:82001
- (Mnatsakanyan, M. A.) *see* Invariance principle and its applications, 95m:82004
- (Molinari, Vincenzo) *see* Special Issue: Proceedings of the 13th International Conference on Transport Theory, 95i:82003
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82B03 Foundations

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- Parisi, Giorgio D -dimensional arrays of Josephson junctions, spin glasses and q -deformed harmonic oscillators. (English summary) **95m:82070**
- Ren, Guang Yao see Wang, Yu Dong, **95i:82044**
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- Plastino, A. R. (with Plastino, A.; Tsallis, Constantino) The classical N -body problem within a generalized statistical mechanics. (English summary) **95j:82003**
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82B31 Stochastic methods

- Hernández, Diego Bricio Diffusions and behavior outside of equilibrium. (Spanish. Spanish summary) **95m:82071**
- Michel, Julien (with Robert, Raoul) Large deviations for Young measures and statistical mechanics of infinite-dimensional dynamical systems with conservation law. (English summary) **95a:82044**
- Robert, Raoul see Michel, Julien, **95a:82044**

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- Calisto, H. (with Cerda, E.; Tirapegui, E.) Effective potential for stochastic processes. **95c:82052**
- Cerda, E. see Calisto, H.; et al., **95c:82052**
- Chayes, Lincoln (with Klein, David Michael) A generalization of Poisson convergence to "Gibbs convergence" with applications to statistical mechanics. (English summary) **95i:82015**
- Comets, Francis M. Erdős-Rényi laws for Gibbs measures. (English summary) **95g:82017**
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- Ferland, René Laws of large numbers for pairwise interacting particle systems. (English summary) **95c:60095**
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- Forrester, P. J. Exact results and universal asymptotics in the Laguerre random matrix ensemble. (English summary) **95h:82015**
- Gielera, Roman (with Rebenko, A. L.) Poisson field representations in the statistical mechanics of continuous systems. (English summary) **95j:82017**
- Huang, Ch'i Jui (with Hwang-Ma, Shu-Yin; Sheu, Shuenn Jyi) Accelerating Gaussian diffusions. (English summary) **95c:60071**
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- Sokal, A. D. see van Enter, A. C. D.; et al., **95g:82040**
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82B40 Kinetic theory of gases

- Maslov, V. P. (with Shvedov, O. Yu.) An asymptotic formula for the N -particle density function as $N \rightarrow \infty$ and a violation of the chaos hypothesis. (English summary) **95k:82014**
- Penrose, Mathew D. (with Penrose, Oliver; Stell, G.) Sticky spheres in quantum mechanics. (English summary) **95m:82072**
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- Babovsky, Hans Monte Carlo simulation schemes for steady kinetic equations. (English summary) **95g:82049**
- Benettin, Giancarlo Adiabatic invariants and time scales for energy sharing in models of classical gases. **95k:82001**
- Murthy, M. V. N. (with Shankar, Ramachandran) Thermodynamics of a one-dimensional ideal gas with fractional exclusion statistics. (English summary) **95i:81289**
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- Wolansky, Gershon Comparison between two models of self-gravitating clusters: conditions for gravitational collapse. **95m:82106**

82B41 Random walks, random surfaces, lattice animals, etc. [see also 60J15, 82C41]

- Ambjorn, Jan Remarks about $c > 1$ and $D > 2$. (English and Russian summaries) **95k:82015**
- Batchelor, M. T. (with Yung, C. M.) Exact transfer-matrix enumeration and critical behaviour of self-avoiding walks across finite strips. (English summary) **95d:82028**

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- Bohr, Henrik Georg see Caliri, A.; et al., **95a:82046**
- Bowick, Mark (with Coddington, Paul; Han, Leping; Harris, Geoffrey R.; Marinari, Enzo) The phase diagram of fluid random surfaces with extrinsic curvature. (English summary) **95a:82045**
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- Caracciolo, Sergio (with Parisi, Giorgio; Pelissetto, Andrea) Random walks with short-range interaction and mean-field behavior. (English summary) **95i:82045**
- Cardy, John (with Mussardo, G.) Universal properties of self-avoiding walks from two-dimensional field theory. (English summary) **95d:82029**
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- Cockayne, Eric Atomistic octagonal random-tiling model. (English summary) **95i:82046**
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- Coniglio, Antonio see Roux, Stéphane, **95c:82037**
- Conway, Andrew (with Guttman, Anthony J.) Longitudinal size exponent for square-lattice directed animals. (English summary)
- Crisanti, Andrea (with Paladini, G.; Vulpiani, Angelo) ★ Products of random matrices in statistical physics. (English summary) **95d:82031**
- Derrida, Bernard (with Higgs, P. G.) Low-temperature properties of directed walks with random self-interactions. (English summary) **95f:82017**
- Distler, Jacques A note on the three-dimensional Ising model as a string theory. (English summary) **95a:82047**
- Durhuus, Bergfinnur Multi-spin systems on a randomly triangulated surface. (English summary) **95g:82042**
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- Flesia, S. (with Gaunt, D. S.; Soteros, C. E.; Whittington, Stuart G.) Statistics of collapsing lattice animals. (English summary)
- Gaunt, D. S. see Flesia, S.; et al.
- Giacometti, Achille (with Nakanishi, Hisao) A new finite-size scaling approach to random walks. (English summary) **95g:82043a**
- (with Nakanishi, Hisao) Corrigenda: "A new finite-size scaling approach to random walks". **95g:82043b**
- (with Maritan, Amos; Nakanishi, Hisao) Statistical mechanics of random paths on disordered lattices. (English summary) **95d:82032**
- Exact closed form of the return probability on the Bethe lattice. (English summary) **95m:82074**
- Glasser, M. L. (with Guttman, Anthony J.) Lattice Green function (at 0) for the 4D hypercubic lattice. (English summary) **95i:82047**
- Grassberger, Peter (with Hegger, Rainer; Schäfer, Lothar) Self-avoiding walks in four dimensions: logarithmic corrections. (English summary)
- Grosberg, A. Yu. see Pande, Vijay S.; et al.
- Guttman, Anthony J. see Glasser, M. L., **95i:82047**; Joyce, G. S., **95i:82050** and Conway, Andrew
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- Hara, Takashi (with Slade, Gordon) Mean-field behaviour and the lace expansion. (English summary) **95d:82033**
- Harris, Geoffrey R. see Bowick, Mark; et al., **95a:82045**
- Harris, Martin Guy (with Wheeler, J. F.) Multiple Ising spins coupled to 2d quantum gravity. (English summary) **95j:82028**
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- Huillet, Thierry (with Jeannet, Bernard) Random walk models for multifractals. (English summary) **95i:82048**
- Itoi, Chigaku Smooth paths on three-dimensional lattice. (English summary) **95i:82049**
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- Madras, Neal A rigorous bound on the critical exponent for the number of lattice trees, animals, and polygons. (English summary) **95m:82076**
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- Moshe, Moshe (with Neuberger, Herbert; Shapiro, Boris) Generalized ensemble of random matrices. (English summary) **95c:82036**
- Mussardo, G. see Cardy, John, **95d:82029**
- Nagao, Tarō (with Wadati, Miki) Eigenvalue distribution of random matrices at the spectrum edge. (English summary) **95a:82048**
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- Nechaev, S. K. (with Vershik, A. M.) Random walks on multiconnected manifolds and conformal field theory. (English summary) **95k:82016**
- Neuberger, Herbert see Moshe, Moshe; et al., **95c:82036**
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- Jungreis, Douglas** Gaussian random polygons are globally knotted. (English summary) **95i:57008**
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Kristjansen, C. F. see **Ambjorn, Jan**, **95b:81150**
Külske, Christof see **Bovier, Anton**, **95i:82041**
Kurzepa, P. S. see **Jaroszewicz, T.**, **95g:81109**
Lawler, Gregory F. Random walks, harmonic measure, and Laplacian growth models. (English summary) **95b:60107**
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Martellini, Maurizio (with Spreafico, Mauro; Yoshida, Kensuke) A generalized model for two-dimensional quantum gravity and dynamics of random surfaces for $d > 1$. (English summary) **95d:81125**
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Pellegrinotti, A. see **Boldrighini, C.**; et al., **95i:60061**
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82B43 Percolation [see also 60K35]

- Alexander, Kenneth S.** (with Molchanov, S. A.) Percolation of level sets for two-dimensional random fields with lattice symmetry. (English summary) **95i:82052**
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Pinson, Haru T. Critical percolation on the torus. (English summary) **95g:82046**
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Bollobás, Béla (with Kohayakawa, Yoshiharu) Percolation in high dimensions. (English summary) **95c:60092**
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 — (with Lafortune, M.-A.) Finite models for percolation. **95m:60163**
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- Meester, Ronald** (with Roy, Rahul) Uniqueness of unbounded occupied and vacant components in Boolean models. (English summary) **95i:60081**
- Nachtergaele, Bruno** A stochastic geometric approach to quantum spin systems. (English summary) **95d:82005**
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- Pemantle, Robin** (with Peres, Yuval) Planar first-passage percolation times are not tight. (English summary) **95g:60144**
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- Whittle, Peter** Polymer models and generalized Potts-Kasteleyn models. (English summary) **95h:82014**
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82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)

- Aizenman, Michael** (with Molchanov, S. A.) Localization at large disorder and at extreme energies: an elementary derivation. (English summary) **95a:82052**
- Localization at weak disorder: some elementary bounds. (English summary) **95k:82018**
- Andreev, A. V.** (with Simons, B. D.; Taniguchi, N.) Supersymmetry applied to the spectrum edge of random matrix ensembles. (English summary) **95j:82030**
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- Bacry, Emmanuel** see Arneodo, A.; et al., **95c:82026**
- Baëta Segundo, J. A.** see Pontin, L. F.; et al., **95c:82042**
- Blecken, C.** (with Chen, Yang; Muttalib, K. A.) Transitions in spectral statistics. (English summary) **95c:82038**
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- Chen, Yang** (with Manning, S. M.) Asymptotic level spacing of the Laguerre ensemble: a Coulomb fluid approach. (English summary) **95b:82034**
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- Connes, Alain Analyse et géométrie. [Analysis and geometry]
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- Graham, Robert (with Hamm, A.) Nonequilibrium potentials for period doubling. (English summary) 95a:58109
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- Karwowski, Witold (with Vilela Mendes, Rui) Hierarchical structures and asymmetric stochastic processes on p -adics and \mathbb{A} -adèles. (English summary) 95h:60166
- Kleinert, Hagen ★ Pfadintegrale in Quantenmechanik, Statistik und Polymerphysik. (German. German summary) [Path integrals in quantum mechanics, statistics and polymer physics] 95a:81153
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- Droz, Michel (with McKane, Alan) Equivalence between Poisson representation and Fock space formalism for birth-death processes. (English summary) 95h:82017
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- Bondarev, B. V. Derivation of the quantum kinetic equation from the Liouville-von Neumann equation. (Russian. English and Russian summaries) 95i:82066
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- Isar, A. The harmonic oscillator with dissipation within the theory of open quantum systems. (English summary) **95g:82056**
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- Lindblad, Göran Determinism and randomness in quantum dynamics. (English summary) **95a:82064**
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- Tarasov, V. E. Quantum dissipative systems. I. Canonical quantization and the quantum Liouville equation. (Russian. English and Russian summaries) **95m:82087**
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- Alicki, Robert (with Rudnicki, Slawomir; Sadowski, Slawomir) Limit theorems for dilute quantum systems leading to quantum Poisson processes. (English summary) **95e:81118**
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- Bányai, L. (with El Sayed, Karim) Time reversal and many-body non-equilibrium Green functions. (English summary) **95e:81270**
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- Connes, Alain Analyse et géométrie. [Analysis and geometry]
- El Sayed, Karim *see* Banyai, L., **95e:81270**
- Emch, Gérard G. (with Narnhofer, Heide; Thirring, W.; Sewell, G. L.) Anosov actions on noncommutative algebras. (English summary) **95h:46105**
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- Graham, Robert (with Hübner, Ralph) Generalized quasi-energies and Floquet states for a dissipative system. (English summary) **95f:81108**
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- Crisanti, Andrea (with Grassberger, Peter) Critical behaviour of non-equilibrium q -state systems. (English summary)
- Elliott, Charles M. (with Gardiner, A. R.; Kostin, I. N.; Lu, Bai Nian) Mathematical and numerical analysis of a mean-field equation for the Ising model with Glauber dynamics. (English summary) **95f:82023**
- Ferrari, Pablo Augusto Shocks in the Burgers equation and the asymmetric simple exclusion process. (see **95c:82002**)
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Cushman, John H. (with Hu, Xiaolong; Ginn, Timothy R.) Nonequilibrium statistical mechanics of preasymptotic dispersion. (English summary) **95f:82036**

Ding, Xinhong A limit theorem for certain disordered random systems. (English summary) **95j:60161**

Escande, Dominique (with Kantz, Holger; Livi, Roberto; Ruffo, Stefano) Self-consistent check of the validity of Gibbs calculus using dynamical variables. (English summary) **95j:82001**

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- Marsili, Matteo Run time statistics in models of growth in disordered media. (English summary) 95i:82085
- Minlos, R. A. (with Trishch, A. G.) Complete spectral resolution of the generator of Glauber dynamics for the one-dimensional Ising model. (Russian) 95k:82031
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- Slemrod, M. (with Grinfeld, Michael; Qi, Anmin; Stewart, I.) Report on a discrete velocity model for evaporation and condensation. (English summary) (see 95j:00017)
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- Berezner, S. A. (with Krutina, M.; Malyshev, V. A.) Exponential convergence of Toom's probabilistic cellular automata. (English summary) 95d:68102
- Blum, Thomas A variational study of directed polymers in disordered media with short-range correlations. (English summary) 95a:82125
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- Ding, Xinhong A limit theorem for certain disordered random systems. (English summary) 95j:60161
- Dominguez, D. R. C. (with Theumann, W. K.) Dynamics of Ising random-bond models: neural network and random-anisotropy-axis model. (English summary)
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82Dxx Applications to specific types of physical systems

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82D05 Gases

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- Brackbill, Jeremiah U. *see* Lapenta, Giovanni, 95f:82038
- Brenier, Yann (with Grenier, Emmanuel) Limite singulière du système de Vlasov-Poisson dans le régime de quasi neutralité: le cas indépendant du temps. (English and French summaries) [Singular limit of the Vlasov-Poisson system in the quasineutral regime: the time-independent case] 95b:82057

- Cordier, Stéphane** Hyperbolicity of Grad's extension of hydrodynamic models for ionospheric plasma. I. The single species case. (English summary) **95k:82032**
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- Gitterman, Moshe (with Weiss, George H.) A comment on early-time solutions of the Smoluchowski equation. (English summary) **95a:82084**
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- Navez, P. (with Houkonnou, M. N.) Dielectric properties of a linear rigid rotor in 3D: the case of large collisions. (English summary) **95i:82108**
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- Baake, Michael (with Ben-Abraham, S. I.; Klitzing, R.; Kramer, Peter; Schlottmann, Martin) Classification of local configurations in quasicrystals. (English summary) **95e:82066**
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- Baake, Michael (with Grimm, Uwe; Warrington, D. H.) Some remarks on the visible points of a lattice. (English summary) **95i:11071a**
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- Bigalke, Hans-Günter** (with Wippermann, Heinrich) ★ Reguläre Parkettierungen. (German. German summary) [Regular tilings] 95i:52025
- Chernikov, Aleksandr Antonovich** (with Sagdeev, R. Z.; Usikov, D. A.; Zaslavskii, G. M.) ★ Weak chaos and structures. (English summary) 95b:58100
- Chiu, S. N.** Mean-value formulae for the neighbourhood of the typical cell of a random tessellation. (English summary) 95b:60015
- Chuburin, Yu. P.** On solutions of the Schrödinger equation in the case of a semibounded crystal. (Russian. English and Russian summaries) 95g:81030
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- Collins, Charles** Computation of twinning. 95m:73019
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- Davies, B. L.** see Dirl, R., 95j:20046 and 95j:52032
- Dirl, R.** (with Davies, B. L.) Generalized finite space groups. (English summary) 95j:20046
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- Pleshakov, V. F.** Expansion of tensor representations of an orthogonal group and a rotational group into irreducible representations. I. Expansion of symmetrized classes of D_j representations. (Russian) 95f:20072
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- Amic, E.** (with Luck, J. M.) Correlations and susceptibilities in (quasi-)1D disordered spin systems. (English summary)
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- Kapitonov, V. S.** Functional representation of the partition function, and phase transitions in the Hubbard model. (Russian. English and Russian summaries)
- Kedney, P. J.** (with Stewart, I. W.) Chaos resulting from the application of a weak, slowly oscillating electric field to a wedge of smectic C liquid crystal. (English summary)
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- Biscari, Paolo (with Capriz, Gianfranco; Virga, Epifanio G.) Biaxial nematic liquid crystals. **95e:58056**
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- Bovier, Anton (with Külske, Christof) A rigorous renormalization group method for interfaces in random media. (English summary) **95i:82041**
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- Feldman, Barry A game-theoretic interpretation of the spin glass. (see **95a:00008**)
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- Migliorini, Gabriele (with Ritort, Felix) Dynamical behaviour of low autocorrelation models. (English summary) **95i:82064**
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- Newman, Charles M. Disordered Ising systems and random cluster representations. (English summary) **95h:82016**
- Parisi, Giorgio D -dimensional arrays of Josephson junctions, spin glasses and q -deformed harmonic oscillators. (English summary) **95m:82070**
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- Quivy, L. Minimization of the relaxed energy for liquid crystals. (English summary) (see **95i:35003**)
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- Shang, Peng Jian Transmission and reflection in a class of one-dimensional chains. (Chinese. Chinese summary) **95i:81268**
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- Stewart, I. W. (with Leslie, F. M.; Nakagawa, Masahiro) Smectic liquid crystals and the parabolic cyclides. (English summary) **95i:73021**
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- equation applied to thermal grooving of metal surfaces. (English summary) **95j:35217**
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- Gonis, Antonios ★ Green functions for ordered and disordered systems. (English summary) **95g:82096**
- Kuz'micheva, N. A. (with Smirnov, A. P.) A numerical-analytic method for solving the two-dimensional kinetic Landau equation in self-similar variables. (Russian. Russian summary) **95d:82055**
- Magnen, Jacques (with Rivasseau, Vincent) Groupe de renormalisation autour d'une sphère. (French summary) [Renormalization group around a sphere] **95h:81241**
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- Mirlin, A. D. (with Müller-Groeling, Axel; Zirnbauer, Martin R.) Conductance fluctuations of disordered wires: Fourier analysis on supersymmetric spaces. (English summary) **95m:82111**
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- Rivasseau, Vincent see Magnen, Jacques, **95h:81241**
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- Wiegmann, P. B. (with Zabrodin, A. V.) Quantum group and magnetic translations Bethe ansatz for the Asbel-Hofstadter problem. (English summary) **95h:82005**
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- Goldstein, Piotr see Cielieński, Jan; et al., **95h:82041**
- Kolokolov, I. V. Functional integration method for quantum magnets and 1D-random potential problem, with application to the infrared dynamics. (English and Italian summaries)
- L'vov, V. S. Nonlinear dynamics and the kinetics of magnons. (Russian) (see **95i:00020**)
- Martina, L. (with Pashaev, O. K.; Soliani, G.) On topological soliton dynamics in multidimensional ferromagnetic continuum. (English and Russian summaries) **95j:82058**
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- Zhou, Lei (with Tao, Rui Bao) A new method of spin operator transformation for an easy-plane spin-one ferromagnet. (English summary)

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- Di Stasio, M. (with Ercolessi, E.; Morandi, G.; Righi, R.; Tagliacozzo, A.; Zucchelli, G. P.) Effective action and adiabatic expansions for the 1-D and 2-D Hubbard models at half-filling. (English summary) **95d:82017**
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- Tian, Guang Shan The effect of an external magnetic field on the MLRO in the global ground states of some antiferromagnetic models. (English summary) **95d:82020**
- Zhou, Yu Lin (with Sun, He Sheng; Guo, Bo Ling) Multidimensional system of ferromagnetic chain type. (English summary) **95c:35243**
- Zucchelli, G. P. see Di Stasio, M.; et al., **95d:82017**

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- Rosakis, Phoebus (with Jiang, Qing) On the morphology of ferroelectric domains. (English summary) **95i:82101**
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- Bellissard, J. (with Van Elst, Andreas; Schulz-Baldes, H.) The noncommutative geometry of the quantum Hall effect. (English summary) **95h:81114**

- Chueshov, I. D. A system of parabolic-type equations that arises in the physics of semiconductors. (Russian) **95a:35056**
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 Chorin, Alexandre J. Vortex phase transitions in 2½ dimensions. (English summary) **95i:82102**
 Fujita, Toshimitsu Numerical analysis of a vortex lattice in a conventional superfluid. (English summary)
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 Kogan, Ya. I. Area-preserving diffeomorphisms, W_∞ and $\mathcal{H}_q[\mathfrak{sl}(2)]$ in Chern-Simons theory and the quantum Hall system. (English summary) **95b:81274**
 Maslov, V. P. (with Shvedov, O. Yu.) The spectrum of an N -particle Hamiltonian for large N and superfluidity. (Russian) **95b:81044**
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 Petrina, D. Ya. General Hamiltonians and model Hamiltonians of the theory of superconductivity and superfluidity in the Hilbert space of translation-invariant functions. (see **95g:81002**)
 Pismen, L. M. Structure and dynamics of defects in 2D complex vector field. (English summary) **95b:76021**
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82D55 Superconductors

- Alfimov, G. L. (with Silin, V. P.) On small perturbations of stationary states in a nonlinear nonlocal model of a Josephson junction. (English summary) **95b:82035**
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 Bethuel, Fabrice (with Riviere, Tristan) Vorticité dans les modèles de Ginzburg-Landau pour la supraconductivité. [Vorticity in Ginzburg-Landau models for superconductivity] **95i:82103**
 Bonatsos, Dennis (with Avancini, S. S.; Menezes, D. P.; da Providência, Constança) The q -deformed Thouless model for superconductivity and the study of thermal effects using number non-conserving coherent states. (English summary) **95c:82076**
 Bossavit, Alain Modelling superconductors with Bean's model, in dimension 2: Stefan's problem, again. (English summary) (see **95i:35003**)
 Brandon, Deborah (with Rogers, Robert C.) Nonlocal superconductivity. **95f:82039**
 Bridges, Thomas J. (with Rowlands, George) Instability of spatially quasi-periodic states of the Ginzburg-Landau equation. (English summary) **95c:82077**
 Chapman, S. Jonathan Nucleation of superconductivity in decreasing fields. I, II. (English summary) **95m:82119**
 — (with Du, Qiang; Gunzburger, Max D.) On the Lawrence-Doniach and anisotropic Ginzburg-Landau models for layered superconductors. (English summary) **95m:82120**
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 Cimmelli, Vito Antonio (with Kosiński, Witold) Superfluidity and internal parameters in helium II. (English summary) (see **95j:00017**)
 Du, Qiang (with Yang, Yi Song) The critical temperature and gap solution in the Bardeen-Cooper-Schrieffer theory of superconductivity. (English summary) **95c:82078**
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 Du, Yi Hong Uniqueness results for the gap equation in the theory of superconductivity. (English summary) **95i:82104**
 E, Weinan Dynamics of vortices in Ginzburg-Landau theories with applications to superconductivity. (English summary) **95g:82097**
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- Feldman, Joel S. (with Magnen, Jacques; Rivasseau, Vincent; Trubowitz, Eugene) Un développement en $1/N$ intrinsèque en physique des solides. (French summary) [An expansion in $1/N$ intrinsic to solid state physics] (see **95m:00012**)
 Gunzburger, Max D. see Chapman, S. Jonathan; et al., **95m:82120**
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 — (with Quick, R. M.; de Llano, M.) Erratum: "Analytic solution of the Bardeen-Cooper-Schrieffer gap equation in one, two, and three dimensions". **95a:82124b**
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- Fröhlich, Jürg (with Studer, Urban M.) Gauge invariance and current algebra in nonrelativistic many-body theory. (English summary) **95c:81179**
- Geller, Michael R. Effective field theory of single and multilayered quantum Hall fluids. (English summary) **95c:81180**
- Haase, R. W. (with Johnson, N. F.) Group theory classification schemes of the N -electron quantum dot. (English summary) **95c:81055**
- Helffer, Bernard see Bolley, C., **95i:81285** and **95m:35173**
- Islam, Jamal Nazrul The Schrödinger equation in quantum field theory. (English summary) **95c:81156**
- Johnson, N. F. see Haase, R. W., **95c:81055**
- Korepin, V. E. see Essler, Fabian H. L., **95m:82045**
- Lieb, Elliott H. (with Loss, Michael) Symmetry of the Ginzburg-Landau minimizer in a disc. (English summary) **95b:58036**
- Loss, Michael see Lieb, Elliott H., **95b:58036**
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- Petersson, N. Anders see Brown, David L.; et al., **95d:35149**
- Petrina, D. Ya. General Hamiltonians and model Hamiltonians of the theory of superconductivity and superfluidity in the Hilbert space of translation-invariant functions. (see **95g:81002**)
- Pilyavskii, A. I. (with Rebenko, A. L.) The large-deviation principle and the BCS model. (English summary) **95a:82009**
- Pismen, L. M. see Rubinstein, B. Y., **95g:35196**
- Rasetti, Mario see Danani, Andrea, **95j:81074**
- Rebenko, A. L. see Pilyavskii, A. I., **95a:82009**
- Rivasseau, Vincent see Feldman, Joel S.; et al., **95b:81134** and **95m:81233**
- Rubinstein, B. Y. (with Pismen, L. M.) Vortex motion in the spatially inhomogeneous conservative Ginzburg-Landau model. (English summary) **95g:35196**
- Sattarov, B. I. On a model system that takes into account the motion of the center of mass. (Russian. Russian summary) **95m:81235**
- Shah, P. A. Phase transitions in a vortex gas. (English summary) **95m:82066**
- Shapir, Yonathan see Blum, Thomas, **95g:82016**
- Skalozub, V. V. (with Vilenskii, S. A.; Zaslavskii, A. Yu.) The electromagnetic structure of the vacuum in two-dimensional Yang-Mills theory with a Chern-Simons mass. (Russian) **95c:81143**
- Sogo, Kiyoshi Eigenstates of Calogero-Sutherland-Moser model and generalized Schur functions. (English summary) **95f:81105**
- Excited states of Calogero-Sutherland-Moser model. II. Complete set of solutions. (English summary) **95f:81106**
- Studer, Urban M. see Fröhlich, Jürg, **95c:81179**
- Su, Zhao Bing see Chen, Yi Xin; et al., **95k:81160**
- Thompson, C. J. see Bursill, R. J.; et al., **95j:82010a** and **95j:82010b**
- Tian, Guang Shan Two rigorous theorems on the momentum distribution functions of the Hubbard model at half-filling. (English summary) **95b:82015**
- Trubowitz, Eugene see Feldman, Joel S.; et al., **95b:81134** and **95m:81233**
- Vilenskii, S. A. see Skalozub, V. V.; et al., **95c:81143**
- Wybourne, Brian G. Applications of S -functions to the quantum Hall effect and quantum dots. (English summary) **95d:81035**
- Zaslavskii, A. Yu. see Skalozub, V. V.; et al., **95c:81143**
- Ziegler, Klaus Dilute system of hard-core bosons: a soluble limit. (English summary) **95d:82014**

82D60 Polymers

- Bak, Thor A. (with Heilmann, Ole J.) Post-gelation solutions to Smoluchowski's coagulation equation. (English summary) **95c:82079**
- Barrett, A. J. (with Domb, C.) Virial expansion for a polymer with a realistic pair-potential interaction. (English summary) **95g:82101**
- Blum, Thomas A variational study of directed polymers in disordered media with short-range correlations. (English summary) **95a:82125**
- Di Stasio, M. (with Pietronero, L.; Stella, A.; Vespignani, A.) Fixed-scale transformation approach to linear and branched polymers. (English summary) **95a:82126**
- Domb, C. see Barrett, A. J., **95g:82101**
- Fernández, Ariel Ascribing weights to folding histories: explaining the expediency of biopolymer folding. (English summary) **95i:82106**
- Grassberger, Peter Non-uniform star polymers in two dimensions. (English summary) **95m:82079**
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- Hinch, E. J. Brownian motion with stiff bonds and rigid constraints. (English summary) **95g:82102**
- Iagolitzer, D. (with Magnen, Jacques) Polymers in a weak random potential in dimension four: rigorous renormalization group analysis. (English summary) **95c:82048**
- Magnen, Jacques see Iagolitzer, D., **95c:82048**
- Pietronero, L. see Di Stasio, M.; et al., **95a:82126**
- Stella, A. see Di Stasio, M.; et al., **95a:82126**
- Vespignani, A. see Di Stasio, M.; et al., **95a:82126**
- Welsh, Dominic J. A. Random generation of polymer configurations. (see **95j:60004**)
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- Batchelor, M. T. (with Owczarek, A. L.; Seaton, Katherine A.; Yung, C. M.) Surface critical behaviour of an $O(n)$ loop model related to two Manhattan lattice walk problems. (English summary) **95m:82073**
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- Chan, Terence (with Dean, David S.; Jansons, Kalvis M.; Rogers, L. C. G.) On polymer conformations in elongational flows. (English summary) **95b:60099**
- Coniglio, Antonio see Roux, Stéphane, **95c:82037**
- Dean, David S. see Chan, Terence; et al., **95b:60099**
- Duplantier, Bertrand Hyperscaling for polymer rings. (English summary) **95j:82012**
- Ertas, Deniz see Kantor, Yacov

- Fendley, Paul (with Saleur, Hubert) $N = 2$ supersymmetry, Painlevé III and exact scaling functions in 2D polymers. (English summary) **95a:81192**
- (with Saleur, Hubert) Exact theory of polymer adsorption in analogy with the Kondo problem. (English summary) **95i:82038**
- Fernández, Ariel A measure on the space of polymer folding pathways: preliminaries for a new scheme of statistical inference. (English summary) **95m:82108**
- Flesia, S. (with Gaunt, D. S.; Soteris, C. E.; Whittington, Stuart G.) Statistics of collapsing lattice animals. (English summary)
- Gaunt, D. S. see Flesia, S.; et al.
- Harris, Geoffrey R. Percolation on strings and the cover-up of the $c = 1$ disaster. (English summary) **95c:81112**
- Jansons, Kalvis M. see Chan, Terence; et al., **95b:60099**
- Kantor, Yacov (with Ertas, Deniz) Extremal segments in random sequences. (English summary)
- Kornilov, E. I. (with Priezzhev, V. B.) An exactly solvable lattice model of rooted branched polymers. (Russian. English and Russian summaries) **95b:82012**
- Owczarek, A. L. see Batchelor, M. T.; et al., **95m:82073** and **Prelberg, Thomas**
- Prelberg, Thomas (with Owczarek, A. L.) Manhattan lattice Θ -point exponents from kinetic growth walks and exact results from the Nienhuis $O(n)$ model. (English summary)
- Priezzhev, V. B. see Kornilov, E. I., **95b:82012**
- Rogers, L. C. G. see Chan, Terence; et al., **95b:60099**
- Roux, Stéphane (with Coniglio, Antonio) Interference of directed paths. (English summary) **95c:82037**
- Saleur, Hubert see Fendley, Paul, **95a:81192** and **95i:82038**
- Seaton, Katherine A. see Batchelor, M. T.; et al., **95m:82073**
- Seno, Flavio (with Vanderzande, Carlo) Non-universality in the collapse of two-dimensional branched polymers. (English summary)
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- Soteris, C. E. see Flesia, S.; et al.
- Vanderzande, Carlo see Seno, Flavio
- Whittington, Stuart G. Topology of polymers. (English summary) **95f:82020**
- see also Flesia, S.; et al.
- Yung, C. M. (with Batchelor, M. T.) Integrable vertex and loop models on the square lattice with open boundaries via reflection matrices. (English summary) **95m:82058**
- see also Batchelor, M. T.; et al., **95m:82073**
- Zhang, Jianhua A free boundary problem arising from swelling-controlled release processes. (English summary) **95g:35206**

82D75 Nuclear reactor theory

- Averin, A. V. (with Voloshchenko, A. M.) Consistent P_1 synthetic acceleration method for outer iterations. (English summary) **95b:82044**
- Buzano, M. L. (with Corno, S. E.; Cravero, L.) A new procedure for integrating the point kinetic equations for fission reactors. (English summary) **95m:82122**
- Caselles, V. (with Mokhtar-Kharroubi, Mustapha) On the approximation of the leading eigenvalues for a class of transport operators. (English summary) **95a:82127**
- Corno, S. E. see Buzano, M. L.; et al., **95m:82122**
- Cravero, L. see Buzano, M. L.; et al., **95m:82122**
- Garis, N. S. see Sahni, D. C.; et al., **95m:82125**
- Han, Qi Heng see Min, Tao; et al., **95k:82038**
- Jaffré, Jérôme (with Vaudecal, Jean-Louis) Experiments with the power and Arnoldi methods for solving the two-group neutron diffusion eigenvalue problem. (English summary) (see **95a:00010**)
- Kobayashi, Keisuke On the advantage of the finite Fourier transformation method for the solution of a multigroup transport equation by the spherical harmonics method. (English summary) **95m:82123**
- Kyncl, Jan On numerical solution to the problem of reactor kinetics with delayed neutrons by Monte Carlo method. (English summary) **95d:82065**
- Liu, Qing Rong see Min, Tao; et al., **95k:82038**
- Liu, Xiao Ping (with Yu, De Jian) The convergence of the discrete-ordinates approximation in the dominant critical eigenvalue problem for a slab geometry in transport theory. (Chinese. English summary) **95k:82037**
- Martin, Olga see Olariu, V.
- Min, Tao (with Han, Qi Heng; Liu, Qing Rong) Applications of the theory of singular integral equations to the neutron transport equation. (Chinese. English and Chinese summaries) **95k:82038**
- Mokhtar-Kharroubi, Mustapha see Caselles, V., **95a:82127**
- Olariu, V. (with Martin, Olga) Méthode variationnelle pour calculer les solutions périodiques de l'équation du transfert des neutrons. (French summary) [Variational method for the calculation of solutions of the neutron transfer equation]
- Rizwan-uddin Non-linear dynamics of space-independent xenon oscillations. (English summary) **95m:82124**
- Sahni, D. C. (with Garis, N. S.; Sjöstrand, N. G.) Spectrum of one-speed neutron transport operator with reflective boundary conditions in slab geometry. (English summary) **95m:82125**
- Sjöstrand, N. G. see Sahni, D. C.; et al., **95m:82125**
- Song, De Gong The identification problem for the macroscopic absorbing cross section of a nuclear reactor. (Chinese. English and Chinese summaries)
- (with Wang, Mian Sen; Zhu, Guang Tian) An identification problem for the boundary reflection coefficient of a nuclear reactor in a slab geometry. (Chinese. English and Chinese summaries) **95d:82066**
- Vaudecal, Jean-Louis see Jaffré, Jérôme, (see **95a:00010**)
- Voloshchenko, A. M. see Averin, A. V., **95b:82044**
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- Yan, Zi Qian Mathematical analysis of a model for nuclear reactor dynamics. (English summary) **95g:82103**
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- Akeshi, Samir** (with Laydi, Mohamed Rachid; Mokhtar-Kharroubi, Mustapha) Décomposition d'opérateurs et accélération de la convergence en neutronique. (English and French summaries) [Splitting method and acceleration of convergence in transport theory] 95i:82086
- Ashby, Steven F.** (with Brown, Peter N.; Dorr, M. R.; Hindmarsh, Alan C.) A linear algebraic analysis of diffusion synthetic acceleration for the Boltzmann transport equation. (English summary) 95m:65005
- Banasik, J.** (with Mika, J. R.) Diffusion limit for the linear Boltzmann equation of the neutron transport theory. (English summary) 95j:82052
- Brown, Peter N.** A linear algebraic development of diffusion synthetic acceleration for three-dimensional transport equations. (English summary) 95m:65006
- see also Ashby, Steven F.; et al., 95m:65005
- Chaudhary, M. S.** see Reddy, B. P., 95m:46062
- Dorr, M. R.** see Ashby, Steven F.; et al., 95m:65005
- Hindmarsh, Alan C.** see Ashby, Steven F.; et al., 95m:65005
- Laydi, Mohamed Rachid** see Akeshi, Samir; et al., 95i:82086
- Manteuffel, Thomas A.** (with McCormick, Stephen F.; Morel, Jim Emanuel; Oliveira, Sueli; Yang, Gaoming) A parallel version of a multigrid algorithm for isotropic transport equations. (English summary) 95c:65149
- McCormick, Stephen F.** see Manteuffel, Thomas A.; et al., 95c:65149
- Mika, J. R.** see Banasik, J., 95j:82052
- Mokhtar-Kharroubi, Mustapha** see Akeshi, Samir; et al., 95i:82086
- Morel, Jim Emanuel** see Manteuffel, Thomas A.; et al., 95c:65149
- Oliveira, Sueli** see Manteuffel, Thomas A.; et al., 95c:65149
- Räsänen, Vladimir** A stability result for a system of differential equations with delay describing a controlled circulant fuel nuclear reactor. (English summary) 95k:34111
- Reddy, B. P.** (with Chaudhary, M. S.) On distributional transforms and slowing down of neutrons. (English summary) 95m:46062
- Sengupta, Ashok** Full range solution of half space neutron transport problem. (English summary) 95m:82112
- Sheld'ko, S. N.** Analytic integration of the transport equation along the free path length in a problem with barrier geometry and an infinite plane source. (Russian. Russian summary) 95i:82092
- Williams, M. M. R.** A stochastic theory of grinding. (English summary) 95m:82116
- Yang, Gaoming** see Manteuffel, Thomas A.; et al., 95c:65149

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- Anile, A. M.** Thermodynamics of electron transport in semiconductors. (English summary) (see 95j:00017)
- Aronson, D. G.** (with Huang, Ying Sue) Limit and uniqueness of discrete rotating waves in large arrays of Josephson junctions. (English summary) 95c:82049
- Barone, Claudio** (with Motta, Santo) The CRF-method for semiconductors' intravalley collision kernels. II. The 3D case. (English summary) 95i:82107
- Feodoritova, O. B.** see Zhukov, V. T.; et al., 95k:82039
- Gajewski, Herbert** On the uniqueness of solutions to the drift-diffusion model of semiconductor devices. (English summary) 95b:82063
- Gheorghiu, Eugen** The dielectric behaviour of suspensions of spherical cells: a unitary approach. (English summary) 95c:82050
- Houkonnou, M. N.** see Navez, P., 95i:82108
- Huang, Ying Sue** see Aronson, D. G., 95c:82049
- King, John Robert** see Moore, M. G.; et al., 95j:82059
- Krutitskaya, N. Ch.** (with Krutitskii, P. A.) On an electric current in a magnetized semiconductor plate with grounded lateral walls. (Russian. Russian summary) 95b:82064
- Krutitskii, P. A.** see Krutitskaya, N. Ch., 95b:82064
- Markowich, Peter A.** (with Unterreiter, A.) Vacuum solutions of a stationary drift-diffusion model. 95b:82065
- Moore, M. G.** (with King, John Robert; Rogers, T. G.) Asymptotic analysis of a model for substitutional-interstitial diffusion. (English summary) 95j:82059
- Motta, Santo** see Barone, Claudio, 95i:82107
- Navez, P.** (with Houkonnou, M. N.) Dielectric properties of a linear rigid rotor in 3D: the case of large collisions. (English summary) 95i:82108
- Nouri, A.** Paraxial approximation of the Vlasov-Maxwell system: laminar beams. (English summary) 95d:82067
- Poupaud, F.** Mathematical theory of kinetic equations for transport modelling in semiconductors. (English summary) 95m:82126
- Rogers, T. G.** see Moore, M. G.; et al., 95j:82059
- Unterreiter, A.** see Markowich, Peter A., 95b:82065
- Zabrodin, A. V.** see Zhukov, V. T.; et al., 95k:82039
- Zhang, Bo** Convergence of the Godunov scheme for a simplified one-dimensional hydrodynamic model for semiconductor devices. (English summary) 95c:82080
- Zhukov, V. T.** (with Zabrodin, A. V.; Feodoritova, O. B.) Peculiarities of the numerical modeling of an inertial thermonuclear fusion target in an approximation of heat-conducting gas dynamics. (Russian. Russian summary) 95k:82039

Items with secondary classifications in 82D99

- Alemasov, V. E.** (with Brennerman, M. Kh.; Kessel', A. R.; Kravtsov, Ya. I.) A stochastic approach to the description of processes in "weakly" mixed multiphase media. The "wandering" wave model. (Russian)
- Allegretto, Walter** (with Xie, Hong) Nonisothermal semiconductor systems. 95i:35298
- Bonilla, Luis L.** (with Higuera, Francisco J.; Venakides, Stephanos) The Gunn effect: instability of the steady state and stability of the solitary wave in long extrinsic semiconductors. (English summary) 95g:35202
- Brennerman, M. Kh.** see Alemasov, V. E.; et al.
- Cercignani, Carlo** An explicitly solvable kinetic model for semiconductors. (English summary) 95m:82104
- Chaves, A. S.** (with Figueiredo, J. M.; Nemes, M. C.) Metric fluctuations, thermodynamics, and classical physics: a proposed connection. (English summary) 95d:83031

- Degond, Pierre** (with Markowich, Peter A.) A steady state potential flow model for semiconductors. (English summary) 95c:35200
- Fang, Wei Fu** (with Ito, Kazufumi) On the time-dependent drift-diffusion model for semiconductors. 95m:35086
- Figueiredo, J. M.** see Chaves, A. S.; et al., 95d:83031
- Frehe, Jens** (with Naumann, J.) An existence theorem for weak solutions of the basic stationary semiconductor equations. (English summary) 95f:35261
- (with Naumann, J.) Existence of weak solutions to the stationary semiconductor equations with avalanche generation. 95i:35299
- (with Naumann, J.) On the existence of weak solutions to a system of stationary semiconductor equations with avalanche generation. (English summary) 95f:35262
- see also Special topics in semiconductor analysis, 95b:35006
- Fröhlich, Jürg** (with Studer, Urban M.) Gauge invariance and current algebra in nonrelativistic many-body theory. (English summary) 95c:81179
- Gajewski, Herbert** On uniqueness of solutions to the drift-diffusion-model of semiconductor devices. (English summary) 95k:35202
- (with Krause, Udo) The drift-diffusion model for carrier transport in semiconductors—some open questions and numerical experiments. (see 95b:35006)
- see also Special topics in semiconductor analysis, 95b:35006
- Galley, J.** The semiconductor equations with non-standard boundary conditions. 95g:35204
- Glitzky, A.** (with Gröger, K.; Hünlich, Rolf) Existence, uniqueness and asymptotic behaviour of solutions to equations modelling transport of dopants in semiconductors. (English summary) 95b:35114
- Goldstein, Raymond E.** Nonlinear dynamics of pattern formation in physics and biology. (English summary) 95b:58141
- Gröger, K.** see Glitzky, A.; et al., 95b:35114
- Higuera, Francisco J.** see Bonilla, Luis L.; et al., 95g:35202
- Hünlich, Rolf** see Glitzky, A.; et al., 95b:35114
- Ito, Kazufumi** see Fang, Wei Fu, 95m:35086
- Jochmann, Frank** Global weak solutions of the one-dimensional hydrodynamic model for semiconductors. (English summary) 95f:35206
- Kessel', A. R.** see Alemasov, V. E.; et al.
- Krause, Udo** see Gajewski, Herbert, 95b:35006
- Kravtsov, Ya. I.** see Alemasov, V. E.; et al.
- Marcati, Pierangelo** (with Natalini, Roberto) Weak solutions to a hydrodynamic model for semiconductors: the Cauchy problem. (English summary) 95k:35203
- Markowich, Peter A.** see Degond, Pierre, 95c:35200
- Martinez-Gamba, Irene** Viscosity approximating solutions to ODE systems that admit shocks, and their limits. (English summary) 95c:34040
- Molenaar, J.** ★ Multigrid methods for semiconductor device simulation. 95a:65207
- Natalini, Roberto** see Marcati, Pierangelo, 95k:35203
- Naumann, J.** see Frehe, Jens, 95f:35261; 95f:35262 and 95i:35299
- Nemes, M. C.** see Chaves, A. S.; et al., 95d:83031
- Oitmaa, J.** see Yang, Yushuang; et al.
- Ring, P.** see Rossignoli, R., 95i:82013
- Rossignoli, R.** (with Ring, P.) Projection at finite temperature. (English summary) 95i:82013
- Shil'kov, A. V.** Generalized multigroup approximation and Lebesgue averaging method in particle transport problems. (English summary) 95d:82057
- Studer, Urban M.** see Fröhlich, Jürg, 95c:81179
- Thompson, C. J.** see Yang, Yushuang; et al.
- Venakides, Stephanos** see Bonilla, Luis L.; et al., 95g:35202
- Xie, Hong** see Allegretto, Walter, 95i:35298
- Yang, Yushuang** (with Thompson, C. J.; Oitmaa, J.) Thermodynamics of a liquid-metal model from high-temperature series expansions. (English summary)

Items listed otherwise than by author

- Berlin** ★ Special topics in semiconductor analysis. 95b:35006
- Bonn** ★ Special topics in semiconductor analysis. 95b:35006
- Special topics in semiconductor analysis** ★ Special topics in semiconductor analysis. 95b:35006
- Symposium**
- Semiconductor Analysis** ★ Special topics in semiconductor analysis. 95b:35006

83-XX Relativity and gravitational theory

83-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Foster, James** (with Nightingale, J. D.) ★ A short course in general relativity. (English summary) 95j:83001
- Mould, Richard A.** ★ Basic relativity. (English summary) 95a:83001
- Nightingale, J. D.** see Foster, James, 95j:83001
- Rindler, Wolfgang** General relativity before special relativity: an unconventional overview of relativity theory. (English summary) 95c:83001
- Sedov, L. I.** Spaces and fields. (Russian. Russian summary) 95d:83001

Items with secondary classifications in 83-01

- Balachandran, A. P.** (with Marmo, G.; Skagerstam, B.-S.; Stern, Allen Bruce) ★ Classical topology and quantum states. 95b:81001
- Lafuente López, Javier** Hawking's theorem. (Spanish) 95i:83042
- Marmo, G.** see Balachandran, A. P.; et al., 95b:81001
- Nerlich, Graham** ★ The shape of space. (English summary) 95k:00011
- Paty, Michel** Physical geometry and special relativity. Einstein et Poincaré. (see 95a:01016)

Skagerstam, B.-S. *see* Balachandran, A. P.; et al., 95b:81001
 Stern, Allen Bruce *see* Balachandran, A. P.; et al., 95b:81001

83-02 Research exposition (monographs, survey articles)

Baez, John C. (with Muniain, Javier P.) ★ Gauge fields, knots and gravity. 95k:83001
 Muniain, Javier P. *see* Baez, John C., 95k:83001
 Nanopoulos, D. V. As time goes by.... 95m:83001
 Nerlich, Graham ★ What spacetime explains. (English summary) 95j:83002
 Potemkin, V. K. (with Simanov, A. L.) ★ Пространство в структуре мира. (Russian. Russian summary) [Space in the structure of the universe] 95h:83001
 Simanov, A. L. *see* Potemkin, V. K., 95h:83001
 Wheeler, John Archibald Toward a thesis topic. (see 95b:83001)

Items with secondary classifications in 83-02

Ashtekar, Abhay Overview and outlook. 95i:83017
 Bonanno, Alfio (with Droz, Serge; Israel, Werner; Morsink, Sharon M.) Black holes: the inside story. (English summary) 95k:83057
 Droz, Serge *see* Bonanno, Alfio; et al., 95k:83057
 Esposito, Giampiero ★ Quantum gravity, quantum cosmology and Lorentzian geometries. 95i:83019
 Isham, C. J. Prima facie questions in quantum gravity. 95i:83020
 Israel, Werner *see* Bonanno, Alfio; et al., 95k:83057
 Morsink, Sharon M. *see* Bonanno, Alfio; et al., 95k:83057
 Senovilla, José M. M. Stationary and axisymmetric perfect-fluid solutions to Einstein's equations. 95c:83025
 Wald, Robert M. ★ Quantum field theory in curved spacetime and black hole thermodynamics. (English summary) 95i:81176

83-03 Historical (must also be assigned at least one classification number from Section 01)

(Freundlich, Erwin Finlay) *see* Hentschel, Klaus, 95g:83001
 Ghins, Michel Dynamical equivalence according to Mach and the general theory of relativity. (Portuguese) (see 95b:00007)
 Hentschel, Klaus Erwin Finlay Freundlich and testing Einstein's theory of relativity. 95g:83001
 Lichnerowicz, André Géométrie et relativité. [Geometry and relativity] 95i:83001
 Meyerson, Émile ★ La déduction relativiste. (French) [Relativistic deduction]
 Peixoto, F. M. (with Rosa, M. A. F.) On Thirring's approach to Mach's principle: criticisms and speculations on extensions of his original work. (English summary) 95k:83002
 Rosa, M. A. F. *see* Peixoto, F. M., 95k:83002

Items with secondary classifications in 83-03

Basu, Debabrata¹ Early history of cosmology. (English summary)
 Bourguignon, Jean-Pierre Transport parallèle et connexions en géométrie et en physique. [Parallel transport and connections in geometry and physics] (see 95a:01016)
 Finkelstein, David Misner, kinks, and black holes. (see 95b:83001)
 Fritzsche, Harald ★ An equation that changed the world. 95g:00017
 (Hawking, Stephen) *see* Thorne, Kip S., 95b:83065
 (Heusch, Karin) *see* Fritzsche, Harald, 95g:00017
 Hoefer, Carl Einstein's struggle for a Machian gravitation theory. (English summary) 95h:01018
 Regge, Tullio Physics and differential geometry. (see 95a:01016)
 Scholz, Erhard Hermann Weyl's contribution to geometry, 1917-1923. 95k:01024
 Schröder, Wilfried (with Treder, Hans-Jürgen) Zu Einsteins letzter Vorlesung—Beobachtbarkeit, Realität und Vollständigkeit in Quanten- und Relativitätstheorie. [On Einstein's last lecture—observability, reality and completeness in quantum and relativity theory]
 (Seitz, Frederick) *see* Thorne, Kip S., 95b:83065
 Stachel, John Lanczos's early contributions to relativity and his relationship with Einstein. 95h:01027
 Thorne, Kip S. ★ Black holes and time warps. 95h:83065
 Treder, Hans-Jürgen *see* Schröder, Wilfried
 (Weyl, Hermann) *see* Scholz, Erhard, 95k:01024

83-04 Explicit machine computation and programs (not the theory of computation or programming)

Contreras, G. (with Melfo, A.; Núñez, L. A.; Percoco, U.) Algebraic computing and collineations in a Friedmann-like collapsing configuration. (English summary) 95j:83003
 d'Inverno, R. A. Numerical relativity on a transputer array. (English summary) 95j:83004
 Melfo, A. *see* Contreras, G.; et al., 95j:83003
 Núñez, L. A. *see* Contreras, G.; et al., 95j:83003
 Percoco, U. *see* Contreras, G.; et al., 95j:83003

Items with secondary classifications in 83-04

Bachelot, Alain La diffraction en métrique de Schwarzschild: complétude asymptotique et résonances. [Diffraction in the Schwarzschild metric: asymptotic completeness and resonances] 95f:83024
 Beirl, Wolfgang (with Markum, Harald; Riedler, Jürgen) Regge gravity on general triangulations. (English summary) 95j:83046
 Choptuik, M. W. "Critical" behaviour in massless scalar field collapse. (English summary) 95c:83003
 Grebot, Guy *see* Wolf, Thomas Otto, 95f:83014
 (d'Inverno, R. A.) *see* Approaches to numerical relativity, 95d:83002
 Lake, Kayll (with Musgrave, Peter) The regularity of static spherically, cylindrically and plane symmetric spacetimes at the origin. 95d:83019
 Markum, Harald *see* Beirl, Wolfgang; et al., 95j:83046

Musgrave, Peter *see* Lake, Kayll, 95d:83019
 Riedler, Jürgen *see* Beirl, Wolfgang; et al., 95j:83046
 Seidel, Edward (with Suen, Wai-Mo) Numerical relativity. (English summary) 95a:83007
 Shapiro, Stuart L. (with Teukolsky, Saul A.) Exploiting the computer to investigate black holes and cosmic censorship. (English summary) (see 95b:83001)
 Suen, Wai-Mo *see* Seidel, Edward, 95a:83007
 Teukolsky, Saul A. *see* Shapiro, Stuart L., (95b:83001)
 Wolf, Thomas Otto (with Grebot, Guy) Automatic symmetry investigation of space-time metrics. (English summary) 95f:83014

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Approaches to numerical relativity ★ Approaches to numerical relativity. 95d:83002
 Southampton ★ Approaches to numerical relativity. 95d:83002
 Workshop:
 Numerical Relativity ★ Approaches to numerical relativity. 95d:83002

83-06 Proceedings, conferences, collections, etc.

(Akerlof, Carl W.) *see* Texas/PASCOS '92: relativistic astrophysics and particle cosmology, 95a:83004
 (Baez, John C.) *see* Knots and quantum gravity, 95g:83002
 (De Sabbata, Vanzo) *see* Cosmology and particle physics, 95k:83003
 (Ehlers, Jürgen) *see* Canonical gravity: from classical to quantum, 95c:83001
 (Ellis, George F. R.) *see* Renaissance of general relativity and cosmology, 95f:83001
 (Englert, F.) *see* Conference: Relativity '93, 95a:83003
 (Friedrich, Helmut) *see* Canonical gravity: from classical to quantum, 95c:83001
 (Gunzig, Edgar) *see* Origin of structure in the universe, 95g:83003
 Hawking, Stephen ★ Hawking on the Big Bang and black holes. 95a:83002
 (He, Zuo Xiu) *see* Cosmology and particle physics, 95k:83003
 (Henneaux, Marc) *see* Conference: Relativity '93, 95a:83003
 (Hu, B. L.) *see* Directions in general relativity, 95b:83001
 (d'Inverno, R. A.) *see* Approaches to numerical relativity, 95d:83002
 (Kerr, R. P.) *see* Relativity today, 95i:83003
 (Lanza, Antonio) *see* Renaissance of general relativity and cosmology, 95f:83001
 (Letelier, Patricio S.) *see* Gravitation: the spacetime structure, 95i:83002
 (Miller, John Charles) *see* Renaissance of general relativity and cosmology, 95f:83001
 (Misner, Charles W.) *see* Directions in general relativity, 95b:83001
 (Nardone, P.) *see* Origin of structure in the universe, 95g:83003
 (Perjes, Zoltán) *see* Relativity today, 95i:83003
 (Rodrigues, Waldyr A., Jr.) *see* Gravitation: the spacetime structure, 95i:83002
 (Ryan, Michael P., Jr.) *see* Directions in general relativity, 95b:83001
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 (Spindel, Philippe) *see* Conference: Relativity '93, 95a:83003
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 (Vishveshwara, C. V.) *see* Directions in general relativity, 95b:83001

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 Bibliography:
 Sciama, Dennis W. ★ The renaissance of general relativity and cosmology. 95f:83001
 Birthday:
 Misner, Charles W. ★ Directions in general relativity. Vol. 1. 95b:83001
 Sciama, Dennis W. ★ The renaissance of general relativity and cosmology. 95f:83001
 Brussels ★ Journées Relativistes '93. [Conference on Relativity '93] 95a:83003
 Canonical gravity: from classical to quantum ★ Canonical gravity: from classical to quantum. 95c:83001
 Château du Pont d'Oye ★ The origin of structure in the universe. 95g:83003
 College Park, MD ★ Directions in general relativity. Vol. 1. 95b:83001
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 Gravitation: the spacetime structure ★ Gravitation: the spacetime structure. 95i:83002
 Knots and quantum gravity ★ Knots and quantum gravity. 95g:83002
 Lecture Notes in Physics ★ Canonical gravity: from classical to quantum. 95c:83001
 NATO Advanced Research Workshop:
 Origin of Structure in the Universe ★ The origin of structure in the universe. 95g:83003
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 Cosmology and Particle Physics ★ Cosmology and particle physics. 95k:83003
 Origin of structure in the universe ★ The origin of structure in the universe. 95g:83003
 Relativity today ★ Relativity today. 95i:83003
 Renaissance of general relativity and cosmology ★ The renaissance of general relativity and cosmology. 95f:83001
 Riverside, CA ★ Knots and quantum gravity. 95g:83002
 Seminar:
 Canonical Formalism in Classical and Quantum Relativity ★ Canonical gravity: from classical to quantum. 95c:83001
 Southampton ★ Approaches to numerical relativity. 95d:83002
 Symposium:
 Directions in General Relativity ★ Directions in general relativity. Vol. 1. 95b:83001
 Particles, Strings, and Cosmology ★ Texas/PASCOS '92: relativistic astrophysics and particle cosmology. 95a:83004
 Relativistic Astrophysics ★ Texas/PASCOS '92: relativistic astrophysics and particle cosmology. 95a:83004

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- Relativity and Gravitation** ★ Gravitation: the spacetime structure. 95i:83002
Texas/PASCOS '92: relativistic astrophysics and particle cosmology ★ Texas/PASCOS '92: relativistic astrophysics and particle cosmology. 95a:83004

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- Knots and Quantum Gravity** ★ Knots and quantum gravity. 95g:83002
Numerical Relativity ★ Approaches to numerical relativity. 95d:83002
Relativity ★ Relativity today. 95i:83003

Items with secondary classifications in 83-06

- (Beem, John K.) *see* Differential geometry and mathematical physics, 95b:53001
 (Brown, J. David) *see* Proceedings: Cornelius Lanczos Conference, 95e:00039
 (Chu, Moody T.) *see* Proceedings: Cornelius Lanczos Conference, 95e:00039
 (De Sabbata, Vanzo) *see* Black hole physics, 95i:83039
 (Duggal, Krishan L.) *see* Differential geometry and mathematical physics, 95b:53001
 (Ellison, Donald C.) *see* Proceedings: Cornelius Lanczos Conference, 95e:00039
 (Lanczos, Cornelius) *see* Proceedings: Cornelius Lanczos Conference, 95e:00039
 (Piemmons, Robert J.) *see* Proceedings: Cornelius Lanczos Conference, 95e:00039
 (Zhang, Zhen Jiu) *see* Black hole physics, 95i:83039

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- Black hole physics** ★ Black hole physics. 95i:83039

Conference:

- Computational Mathematics, Theoretical Physics, and Astrophysics** ★ Proceedings of the Cornelius Lanczos International Centenary Conference. 95e:00039
Lanczos, Cornelius ★ Proceedings of the Cornelius Lanczos International Centenary Conference. 95e:00039

- Contemporary Mathematics** ★ Differential geometry and mathematical physics. 95b:53001
Differential geometry and mathematical physics ★ Differential geometry and mathematical physics. 95b:53001

- Erice** ★ Black hole physics. 95i:83039

NATO Advanced Study Institute:

- Black Hole Physics** ★ Black hole physics. 95i:83039

Proceedings:

- Cornelius Lanczos Conference** ★ Proceedings of the Cornelius Lanczos International Centenary Conference. 95e:00039
Raleigh, NC ★ Proceedings of the Cornelius Lanczos International Centenary Conference. 95e:00039

Session:

- Geometric Methods in Mathematical Physics** ★ Differential geometry and mathematical physics. 95b:53001

- Vancouver, BC** ★ Differential geometry and mathematical physics. 95b:53001

83-08 Computational methods

- Alcubierre, Miguel** (with Schutz, Bernard F.) Time-symmetric ADI and causal reconnection. (English summary) 95h:83002
Allen, Gabrielle D. (with Schutz, Bernard F.) An ADI scheme for a black hole problem. (English summary) (see 95d:83002)
Bona Garcia, Carlos (with Massó, Joan) A vacuum fully relativistic 3D numerical code. (English summary) 95e:83002
Choptuik, M. W. "Critical" behaviour in massless scalar field collapse. (English summary) 95e:83003
Clarke, C. J. S. (with d'Inverno, R. A.) Combining Cauchy and characteristic numerical evolutions in curved coordinates. (English summary) 95b:83002
Gómez, Roberto (with Winicour, J.) Numerical asymptotics. (English summary) 95e:83004
d'Inverno, R. A. *see* Clarke, C. J. S., 95b:83002
Lanza, Antonio Application of multigrad to general relativity. (English summary) 95a:83005
Massó, Joan *see* Bona Garcia, Carlos, 95e:83002
Matzner, Richard A. Numerical relativity. 95c:83002
 — Computational relativity. (English summary) 95j:83005
Miller, John Charles Computing the rotational properties of compact stars. (English summary) 95a:83006
Schutz, Bernard F. *see* Alcubierre, Miguel, 95h:83002 and Allen, Gabrielle D., (95d:83002)
Seidel, Edward (with Suen, Wai-Mo) Numerical relativity. (English summary) 95a:83007
Shellard, E. P. S. The numerical study of topological defects. (English summary) 95e:83005
Stewart, J. M. The characteristic initial value problem in general relativity. (English summary) 95h:83003
Suen, Wai-Mo *see* Seidel, Edward, 95a:83007
Winicour, J. *see* Gómez, Roberto, 95e:83004

Items with secondary classifications in 83-08

- Adams, A.** *see* Salisbury, D. C.; et al., 95k:83010
Alcubierre, Miguel (with Schutz, Bernard F.) Time-symmetric ADI and causal reconnection: stable numerical techniques for hyperbolic systems on moving grids. (English summary) 95e:65083
Barrett, John W. A mathematical approach to numerical relativity. (English summary) 95g:83034
Bernstein, David H. (with Tod, K. Paul) Penrose's quasilocal mass in a numerically computed space-time. (English summary) 95e:83036
 — (with Hobill, David; Seidel, Edward; Smarr, Larry) Initial data for the black hole plus Brill wave spacetime. (English summary) 95g:83007
Bishop, N. T. Some aspects of the characteristic initial value problem in numerical relativity. (English summary) 95h:83010
Brill, Dieter R. (with Pirk, Kay-Thomas) A pictorial history of some gravitational instants. (English summary) (see 95b:83001)

- Chiba, Takeshi** (with Nakamura, Takashi; Nakao, Ken-ichi; Sasaki, Misao) Hoop conjecture for apparent horizon formation. (English summary) 95a:83077
Frauenfelder, Jörg Algebraic approach to the characteristic initial value problem in general relativity. (English summary) 95i:83005
 — (with Sparling, George A. J.) An algebraic treatment of certain classes of spinor equations with an application to general relativity. (English summary) 95a:83075
Gómez, Roberto (with Papadopoulos, Philippos O.; Winicour, J.) Null cone evolution of axisymmetric vacuum space-times. (English summary) 95e:83022
Hobill, David *see* Bernstein, David H.; et al., 95g:83007
Ibáñez Cabanell, J. M. (with Martí, José Ma.; Miralles, Juan A.; Romero, J. V.) Godunov-type methods applied to general relativistic stellar collapse. (English summary) (see 95d:83002)
d'Inverno, R. A. Numerical relativity on a transputer array. (English summary) 95j:83004
 — *see also* Approaches to numerical relativity, 95d:83002
Lanza, Antonio Self-gravitating thin discs around rotating black holes. (English summary) (see 95d:83002)
Mann, Darren T. *see* Salisbury, D. C.; et al., 95k:83010
Martí, José Ma. *see* Ibáñez Cabanell, J. M.; et al., (95d:83002)
Miller, John Charles Making sense of the effects of rotation in general relativity. (English summary) 95k:83054
Miralles, Juan A. *see* Ibáñez Cabanell, J. M.; et al., (95d:83002)
Nakamura, Takashi *see* Chiba, Takeshi; et al., 95a:83077
Nakao, Ken-ichi *see* Chiba, Takeshi; et al., 95a:83077
Papadopoulos, Philippos O. *see* Gómez, Roberto; et al., 95e:83022
Pirk, Kay-Thomas *see* Brill, Dieter R., (95b:83001)
Romero, J. V. *see* Ibáñez Cabanell, J. M.; et al., (95d:83002)
Rosen, Nathan A classical Klein-Gordon particle. (English summary) 95h:83034
Salisbury, D. C. (with Adams, A.; Mann, Darren T.; Turvan, L.; Turner, Brian Neil; Shepley, L. C.) A connection approach to numerical relativity. (English summary) 95k:83010
Sasaki, Misao *see* Chiba, Takeshi; et al., 95a:83077
Schutz, Bernard F. *see* Alcubierre, Miguel, 95e:65083
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- Approaches to numerical relativity** ★ Approaches to numerical relativity. 95d:83002
Southampton ★ Approaches to numerical relativity. 95d:83002
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83A05 Special relativity

- Amores Lázaro, Ángel Miguel** A mathematical introduction to relativistic kinematics. (Spanish) 95j:83006
Anderson, Ronald (with Stedman, Geoffrey E.) Spatial measures in special relativity do not empirically determine simultaneity relations: a reply to R. Coleman and H. Korté: "On attempts to rescue the conventional thesis of distant simultaneity in STR" [Found. Phys. Lett. 5 (1992), no. 6, 535-571; MR 93k:83002]. (English summary) 95e:83003
Animalu, A. O. E. *see* Animalu, N. C., 95h:83004
Animalu, N. C. (with Animalu, A. O. E.) Birkhoffian mechanics of velocity-dependent forces in the "extended" relativity of deformable bodies. (English summary) 95h:83004
Arima, Satoshi *see* Yoneda, Gen; et al., 95m:83003a
Aristov, V. V. A statistical model of clocks in physical theory. (Russian) 95h:83005
Arntzenius, Frank Spacelike connections. 95d:83003
Bălan, Traian (with Constantinescu, D.) Remarks on linear horistologies. (English summary) 95a:83008
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85-03 Historical (must also be assigned at least one classification number from Section 01)

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School:

Astrophysics ★ Galactic dynamics and N -body simulations. 95c:85001

Thessaloniki ★ Galactic dynamics and N -body simulations. 95c:85001

Items with secondary classifications in 85-06

(Akerlof, Carl W.) *see* Texas/PASCOS '92: relativistic astrophysics and particle cosmology. 95a:83004

(Matthews, Paul C.) *see* Solar and planetary dynamos, 95g:85007

(Mnatsakanyan, M. A.) *see* Invariance principle and its applications, 95m:82004

(Pikichyan, O. V.) *see* Invariance principle and its applications, 95m:82004

(Proctor, M. R. E.) *see* Solar and planetary dynamos, 95g:85007

(Rucklidge, A. M.) *see* Solar and planetary dynamos, 95g:85007

(Srednicki, Mark A.) *see* Texas/PASCOS '92: relativistic astrophysics and particle cosmology, 95a:83004

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All-Union Symposium:

Invariance Principle and its Applications ★ Принцип инвариантности и его приложения. (Russian) [The invariance principle and its applications] 95m:82004

Anniversary:

Introduction of the invariance principle in radiative transfer theory ★ Принцип инвариантности и его приложения. (Russian) [The invariance principle and its applications] 95m:82004

Berkeley, CA ★ Texas/PASCOS '92: relativistic astrophysics and particle cosmology. 95a:83004

Byurakan ★ Принцип инвариантности и его приложения. (Russian) [The invariance principle and its applications] 95m:82004

Cambridge ★ Solar and planetary dynamos. 95g:85007

Invariance principle and its applications ★ Принцип инвариантности и его приложения. (Russian) [The invariance principle and its applications] 95m:82004

NATO Advanced Study Institute:

Theory of Solar and Planetary Dynamos ★ Solar and planetary dynamos. 95g:85007

Solar and planetary dynamos ★ Solar and planetary dynamos. 95g:85007

Symposium:

Particles, Strings, and Cosmology ★ Texas/PASCOS '92: relativistic astrophysics and particle cosmology. 95a:83004

Relativistic Astrophysics ★ Texas/PASCOS '92: relativistic astrophysics and particle cosmology. 95a:83004

Texas/PASCOS '92: relativistic astrophysics and particle cosmology ★ Texas/PASCOS '92: relativistic astrophysics and particle cosmology. 95a:83004

85-08 Computational methods

Aarseth, Sverre J. Direct methods for N -body simulations. (English summary) (see 95c:85001)

Moscardini, L. Cosmological particle-mesh N -body simulations and the role of initial conditions. (English summary) 95a:85001

Items with secondary classifications in 85-08

Frankel, Jay I. Several symbolic augmented Chebyshev expansions for solving the equation of radiative transfer. (English summary) 95m:85001

Ibáñez Cabanell, J. M. (with Martí, José Ma.; Miralles, Juan A.; Romero, J. V.) Godunov-type methods applied to general relativistic stellar collapse. (English summary) (see 95d:83002)

Martí, José Ma. *see* Ibáñez Cabanell, J. M.; et al., (95d:83002)

Miralles, Juan A. *see* Ibáñez Cabanell, J. M.; et al., (95d:83002)

Romero, J. V. *see* Ibáñez Cabanell, J. M.; et al., (95d:83002)

85A04 General

Items with secondary classifications in 85A04

Peters, A. O. Arno'd's singularity theory and gravitational lensing. (English summary) 95a:58009

85A05 Galactic and stellar dynamics

- Alekseenko, S. V. (with Cherep, A. A.) Spiral waves in dispersive media. (English summary) 95c:85002
- Cherep, A. A. *see* Alekseenko, S. V., 95c:85002
- Hellig, U. On Lichtenstein's analysis of rotating Newtonian stars. (English and French summaries) 95f:85001
- Kats, A. V. (with Kontorovich, V. M.) Generalized Smoluchowski equations and the mass and angular momentum distribution of galaxies. (Russian) (see 95i:00020)
- Kontorovich, V. M. *see* Kats, A. V., (95i:00020)
- Krawiec, Adam *see* Szydłowski, Marek; et al., 95g:85002
- Lynden-Bell, D. Lectures on stellar dynamics. (English summary) 95g:85001
- Makino, Tetu Recent progress of the study of the Euler-Poisson equation for the evolution of gaseous stars. 95a:85002
- Palmer, P. L. The study of instability in stellar dynamics. (English summary) (see 95c:85001)
- Szczęśny, Jerzy *see* Szydłowski, Marek; et al., 95g:85002
- Szydłowski, Marek (with Szczyński, Jerzy; Krawiec, Adam) Qualitative chaos in galactic models. (English summary) 95g:85002
- Vlasov, A. A. A relativistic satellite problem taking into account galactic rotation. (Russian. Russian summary) 95a:85003

Items with secondary classifications in 85A05

- Bekov, A. A. Motions of a particle near a rotating gravitating triaxial ellipsoid with variable physical parameters. (Russian) 95a:70005
- Contopoulos, G. J. Order and chaos. (English summary) 95g:58193
- Ferrer, Sebastián (with Osácar, Carlos) Harrington's Hamiltonian in the stellar problem of three bodies: reductions, relative equilibria and bifurcations. (English summary) 95i:70010a
- (with Osácar, Carlos) Erratum: "Harrington's Hamiltonian in the stellar problem of three bodies: reductions, relative equilibria and bifurcations". 95i:70010b
- Kandrup, Henry E. Reduced Hamiltonian descriptions. (English summary) 95g:58084
- Miller, John Charles Computing the rotational properties of compact stars. (English summary) 95a:83006
- Osácar, Carlos *see* Ferrer, Sebastián, 95i:70010a and 95i:70010b
- Qin, Yi Ping *see* Zheng, Xue Tang; et al., 95g:70008
- Yu, Li Zhong *see* Zheng, Xue Tang; et al., 95g:70008
- Zheng, Xue Tang (with Yu, Li Zhong; Qin, Yi Ping) The libration points in photogravitational restricted three-body problem. (Chinese. English and Chinese summaries) 95g:70008

85A15 Galactic and stellar structure

- Adami, John A. Non-radial stellar oscillations: a perspective from potential scattering. I. Theoretical foundations. (English summary) 95g:83003
- Bartkowiak, Anna (with Jakimiec, Maria) Distance-based regression in prediction of solar flare activity. (English summary) 95d:85001
- Centrella, Joan M. *see* Smith, Scott C., (95d:83002)
- Hiotelis, N. Simple distribution functions for stellar systems. (English summary) 95a:85004
- Ibáñez Cabanell, J. M. (with Martí, José Ma.; Miralles, Juan A.; Romero, J. V.) Godunov-type methods applied to general relativistic stellar collapse. (English summary) (see 95d:83002)
- Jakimiec, Maria *see* Bartkowiak, Anna, 95d:85001
- Martí, José Ma. *see* Ibáñez Cabanell, J. M.; et al., (95d:83002)
- Miralles, Juan A. *see* Ibáñez Cabanell, J. M.; et al., (95d:83002)
- Romero, J. V. *see* Ibáñez Cabanell, J. M.; et al., (95d:83002)
- Smith, Scott C. (with Centrella, Joan M.) Instabilities in rapidly rotating polytropes. (English summary) (see 95d:83002)

Items with secondary classifications in 85A15

- Gilbert, Andrew D. Towards a realistic fast dynamo: models based on cat maps and pseudo-Anosov maps. (English summary) 95c:58164
- Lindblom, Lee (with Masood-ul-Alam, A. K. M.) On the spherical symmetry of static stellar models. (English summary) 95c:83024
- Masood-ul-Alam, A. K. M. *see* Lindblom, Lee, 95c:83024
- Nakamura, Takashi *see* Oohara, Ken-ichi, (95d:83002)
- Oohara, Ken-ichi (with Nakamura, Takashi) Gravitational radiation from coalescing binary neutron stars. (English summary) (see 95d:83002)
- Sigalotti, L. Di G. Finite-difference Eulerian hydrodynamics: second-order convective fluxes on a radially moving spherical mesh. (English summary) 95c:76077

85A20 Stellar atmospheres

Items with secondary classifications in 85A20

- Cordier, Stéphane Hyperbolicity of Grad's extension of hydrodynamic models for ionospheric plasma. I. The single species case. (English summary) 95k:82032
- Hyperbolicity of Grad's extension of hydrodynamic models for ionospheric plasma. II. The two species case. (English summary) 95k:82033
- Mizohata, Kiyoshi Global weak solutions for the equation of isothermal gas around a star. 95i:35231

85A25 Radiative transfer

- Aiello, S. *see* Bellini-Morante, Aldo; et al., 95k:85001
- Avestiano, M. G. A mathematical model for one transfer problem. 95c:85003
- Bellini-Morante, Aldo (with Moro, A.; Aiello, S.; Cecchi-Pestellini, C.) Photon transport in an interstellar cloud with stochastic clumps: the three-dimensional case. 95k:85001
- Borovik, F. N. *see* Rogovtsov, N. N., 95g:85004
- Cecchi-Pestellini, C. *see* Bellini-Morante, Aldo; et al., 95k:85001

- Engibaryan, N. B. One transfer problem with accompanying energy losses on the way. 95c:85004
- Frankel, Jay I. Several symbolic augmented Chebyshev expansions for solving the equation of radiative transfer. (English summary) 95m:85001
- Kondrat'ev, K. Ya. *see* Smokty, O. I., 95m:85004
- Latyshev, A. V. Solution of boundary value problems for radiative transfer equations. (Russian. Russian summary) 95b:85001
- Moro, A. *see* Bellini-Morante, Aldo; et al., 95k:85001
- Nikoghossian, A. G. The statistical description of a radiation diffusion process in a medium of finite optical thickness. 95c:85005
- Potapov, V. S. A method for solving an equation in transfer theory for an optically thick layer with reflecting boundaries. (Russian. English and Russian summaries) 95m:85002
- Asymptotic solutions of equations of transport theory for an optically thick layer with reflecting boundaries. (Russian. English and Russian summaries) 95m:85003
- Rogovtsov, N. N. (with Borovik, F. N.) On the solution in closed form of the radiation transfer equation for an infinite homogeneous plane-parallel medium. (Russian. English and Russian summaries) 95g:85004
- Smokty, O. I. (with Kondrat'ev, K. Ya.) The analytical approximation of the spatial-frequency filtration of radiation fields for the space spectrophotometry problems. (English summary) 95m:85004
- Surinov, Yu. A. Mathematical modeling of the processes of radiation transfer and radiation heat exchange (stochastic aspect). (Russian. English and Russian summaries) 95k:85002
- Ueno, Suetō *see* Wang, A. P., 95c:85006
- Wang, A. P. (with Ueno, Suetō) Searchlight on a target with diffuse background. II. (English summary) 95c:85006

Items with secondary classifications in 85A25

- Anikonov, D. S. (with Prokhorov, I. V.; Kovtanyuk, A. E.) Investigation of scattering and absorbing media by the methods of X-ray tomography. (English summary) 95e:78009
- Arianfar, P. (with Emamirad, H.) Relation between scattering and albedo operators in linear transport theory. 95b:82052
- Emamirad, H. *see* Arianfar, P., 95b:82052
- Kovtanyuk, A. E. *see* Anikonov, D. S.; et al., 95e:78009
- Prokhorov, I. V. *see* Anikonov, D. S.; et al., 95e:78009
- Sharafutdinov, V. A. An inverse problem of determining the source in the stationary transport equation for a refracting medium. (Russian. Russian summary) 95i:82089
- Sushkevich, T. A. Solution of a general boundary value problem in transport theory for a plane layer with a horizontal inhomogeneity. (Russian) 95k:78017
- Turek, Stefan A generalized mean intensity approach for the numerical solution of the radiative transfer equation. (English and German summaries) 95k:65127

85A30 Hydrodynamic and hydromagnetic problems
[see also 76Y05]

- Abramowicz, M. (with Papaloizou, J.; Szuszkiewicz, E.) The convective stability of a thin viscous disc. (English summary) 95c:85001
- Avinash, K. (with Sen, Abhijit) A model for the fine structure of Saturn's rings. (English summary) 95b:85001
- Brownjohn, D. P. *see* Proctor, M. R. E.; et al., 95i:85002
- Dowling, Timothy E. Dynamics of Jovian atmospheres. 95j:85001
- Frisch, U. *see* Gama, S., 95i:85001
- Gama, S. (with Frisch, U.) Local helicity, a material invariant for the odd-dimensional incompressible Euler equations. (English summary) 95i:85001
- Hurlburt, N. E. *see* Proctor, M. R. E.; et al., 95i:85002
- Kerswell, R. R. Tidal excitation of hydromagnetic waves and their damping in the Earth. (English summary) 95g:85005
- Mattei, Giulio Two observations about Alfvén waves. (Italian. English summary) 95c:85007
- (Matthews, Paul C.) *see* Solar and planetary dynamos, 95g:85007
- Papaloizou, J. (with Szuszkiewicz, E.) The stability of a differentially rotating disc with a poloidal magnetic field. (English summary) 95g:85006
- *see also* Abramowicz, M.; et al., 95c:85001
- Proctor, M. R. E. (with Weiss, N. O.; Brownjohn, D. P.; Hurlburt, N. E.) Nonlinear compressible magnetoconvection. II. Streaming instabilities in two dimensions. (English summary) 95i:85002
- *see also* Solar and planetary dynamos, 95g:85007
- (Rucklidge, A. M.) *see* Solar and planetary dynamos, 95g:85007
- Sen, Abhijit *see* Avinash, K., 95h:85001
- Stenflo, L. Acoustic gravity vortex chains. (English summary) 95a:85005
- Szuszkiewicz, E. *see* Abramowicz, M.; et al., 95c:85001 and Papaloizou, J., 95g:85006
- Trakhtengerts, V. Yu. A turbulent Alfvén boundary layer. (Russian) (see 95i:00020)
- Weiss, N. O. *see* Proctor, M. R. E.; et al., 95i:85002

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- Cambridge ★ Solar and planetary dynamos. 95g:85007
- NATO Advanced Study Institute:
Theory of Solar and Planetary Dynamos ★ Solar and planetary dynamos. 95g:85007
- Solar and planetary dynamos ★ Solar and planetary dynamos. 95g:85007

Items with secondary classifications in 85A30

- Belyanin, M. P. (with Sokolov, D. D.; Shukurov, A. M.) Asymptotic steady-state solutions to the nonlinear hydromagnetic dynamo equations. (English summary) 95h:76116
- Biskamp, Dieter ★ Nonlinear magnetohydrodynamics. (English summary) 95d:76002
- Bodo, G. High order Godunov methods for hydrodynamic and magnetohydrodynamic astrophysical flows. (English summary) 95a:76065
- Brauer, Uwe (with Rendall, Alan D.; Reula, Oscar A.) The cosmic no-hair theorem and the non-linear stability of homogeneous Newtonian cosmological models. (English summary) 95g:85008
- Chuev, N. P. *see* Deryabin, S. L., 95e:76083

- Deryabin, S. L. (with Chuev, N. P.) Spherically symmetric effusion of a self-gravitating ideal gas into vacuum. (Russian. Russian summary) 95e:76083
- Ferrari, Attilio see Villata, Massimo, 95c:76118
- Gubarev, Yu. G. Instability of a self-gravitating compressible medium. (Russian) 95j:76050
- Makino, Tetu (with Takeno, Shigeharu) Initial-boundary value problem for the spherically symmetric motion of isentropic gas. (English summary) 95h:76095
- Molchanov, S. A. (with Ruzmaikin, A. A.; Sokolov, D. D.) Magnetic intermittence. (Russian) (see 95i:00020)
- Palese, Lidia Gravitational instability and wave propagation for a dusty anisotropic electroconducting fluid. (Italian. Italian summary) 95b:76037
- Rendall, Alan D. see Brauer, Uwe; et al., 95g:85008
- Reula, Oscar A. see Brauer, Uwe; et al., 95g:85008
- Ruzmaikin, A. A. see Molchanov, S. A.; et al., (95i:00020)
- Shukurov, A. M. see Belyanin, M. P.; et al., 95h:76116
- Sokolov, D. D. see Belyanin, M. P.; et al., 95h:76116 and Molchanov, S. A.; et al., (95i:00020)
- Soward, Andrew M. Analytic fast dynamo solution for a two-dimensional pulsed flow. (English summary) 95j:86010
- Takeno, Shigeharu see Makino, Tetu, 95h:76095
- Villata, Massimo (with Ferrari, Attilio) Exact solutions for helical magnetohydrodynamic equilibria. II. Nonstatic and nonbarotropic solutions. (English summary) 95c:76118
- Weichman, P. B. Statistical mechanics, Euler's equation, and Jupiter's red spot. 95b:82056
- Zhan, Mei-Qin Local existence of solutions to the Landau-Maxwell system. (English summary) 95h:35228

85A40 Cosmology {For relativistic cosmology, see 83F05.}

- Brauer, Uwe (with Rendall, Alan D.; Reula, Oscar A.) The cosmic no-hair theorem and the non-linear stability of homogeneous Newtonian cosmological models. (English summary) 95g:85008
- Rendall, Alan D. see Brauer, Uwe; et al., 95g:85008
- Reula, Oscar A. see Brauer, Uwe; et al., 95g:85008
- Items with secondary classifications in 85A40
- Kragh, Helge Cosmology between the wars: the Nernst-MacMillan alternative.
- Levine, Harold I. (with Petters, A. O.; Wambsganss, J.) Applications of singularity theory to gravitational lensing. I. Multiple lens planes. (English summary) 95c:58023
- Petters, A. O. see Levine, Harold I.; et al., 95c:58023
- Rein, Gerhard (with Rendall, Alan D.) Global existence of classical solutions to the Vlasov-Poisson system in a three-dimensional, cosmological setting. (English summary) 95d:82040
- Rendall, Alan D. see Rein, Gerhard, 95d:82040
- Sciama, Dennis The present status of the decaying neutrino theory. (English summary) (see 95b:83001)
- Wambsganss, J. see Levine, Harold I.; et al., 95c:58023

85A99 Miscellaneous topics

- Items with secondary classifications in 85A99
- Gottlieb, Daniel H. A gravitational lens need not produce an odd number of images. (English summary) 95g:83076
- Lieb, Elliott H. Large atoms in the magnetic field of a neutron star. (English summary) 95b:81237

86-XX Geophysics [see also 73N05, 76U05, 76V05]

86-02 Research exposition (monographs, survey articles)

- Items with secondary classifications in 86-02
- Weaver, J. T. ★ Mathematical methods for geo-electromagnetic induction. (English summary) 95c:86016

86-03 Historical (must also be assigned at least one classification number from Section 01)

- Sheinin, O. B. C. F. Gauss and geodetic observations. 95d:86001
- Items with secondary classifications in 86-03
- Gowing, Ronald Halley, Cotes, and the nautical meridian. (English, French and German summaries) 95m:01006

86-06 Proceedings, conferences, collections, etc.

- (Foufoula-Georgiou, Ef) see Wavelets in geophysics, 95d:86002
- (Kumar, Praveen) see Wavelets in geophysics, 95d:86002
- (Lee, Ding) see Oceanography and acoustics, 95a:86001
- (Robinson, Allan R.) see Oceanography and acoustics, 95a:86001

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- Baltimore, MD ★ Wavelets in geophysics. 95d:86002
- Meeting:

- Applications of Wavelet Transforms in Geophysics ★ Wavelets in geophysics. 95d:86002
- Oceanography and acoustics ★ Oceanography and acoustics. 95a:86001

Wavelets in geophysics ★ Wavelets in geophysics. 95d:86002

Items with secondary classifications in 86-06

- (Lumley, John L.) see Annual review of fluid mechanics, 95i:76001
- (Obolentsev, I. R.) see Elastic waves in hypotropic and anisotropic media, 95h:73004
- (Reed, Helen L.) see Annual review of fluid mechanics, 95i:76001
- (Van Dyke, Milton) see Annual review of fluid mechanics, 95i:76001

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- Annual review of fluid mechanics ★ Annual review of fluid mechanics. Vol. 27. 95i:76001
- Elastic waves in hypotropic and anisotropic media ★ Упругие волны в гиротропных и анизотропных средах. (Russian) [Elastic waves in hypotropic and anisotropic media] 95h:73004

86-08 Computational methods

- Balk, P. I. (with Shefer, U.; Balk, T. V.) The structure of a minimizable functional in assembly algorithms for the search for admissible solutions of an inverse problem of gravimetry. (Russian. Russian summary) 95k:86001
- Balk, T. V. see Balk, P. I.; et al., 95k:86001
- Börsch-Supan, Wolfgang see Fiebig-Wittmaack, Melitta, 95g:86001
- Brewer, Kevin E. (with Wheatcraft, Stephen W.) Including multi-scale information in the characterization of hydraulic conductivity distributions. (English summary) (see 95d:86002)
- Brunet, Yves (with Collineau, Serge) Wavelet analysis of diurnal and nocturnal turbulence above a maize crop. (English summary) (see 95d:86002)
- Collineau, Serge see Brunet, Yves, (95d:86002)
- Davis, Anthony (with Marshak, Alexander; Wiscombe, Warren) Wavelet-based multifractal analysis of non-stationary and/or intermittent geophysical signals. (English summary) 95j:86001
- Fiebig-Wittmaack, Melitta (with Börsch-Supan, Wolfgang) Positivity preserving in difference schemes for the 2D diffusive transport of atmospheric gases. (English summary) 95g:86001
- Foufoula-Georgiou, Ef see Kumar, Praveen, 95j:86002
- Howell, J. F. (with Mahrt, L.) An adaptive decomposition: application to turbulence. (English summary) (see 95d:86002)
- Hundsdoerfer, Willem (with Koren, Barry; van Loon, M.; Verwer, J. G.) A positive finite-difference advection scheme. (English summary) 95m:86001
- Koren, Barry see Hundsdoerfer, Willem; et al., 95m:86001
- Kumar, Praveen (with Foufoula-Georgiou, Ef) Wavelet analysis in geophysics: an introduction. (English summary) 95j:86002
- Little, Sarah A. Wavelet analysis of seafloor bathymetry: an example. (English summary) (see 95d:86002)
- van Loon, M. see Hundsdoerfer, Willem; et al., 95m:86001
- Mahrt, L. see Howell, J. F., (95d:86002)
- Marshak, Alexander see Davis, Anthony; et al., 95j:86001
- Pike, Chris J. Analysis of high resolution marine seismic data using the wavelet transform. (English summary) (see 95d:86002)
- Saito, Naoki Simultaneous noise suppression and signal compression using a library of orthonormal bases and the minimum description length criterion. (English summary) 95h:86001
- Shefer, U. see Balk, P. I.; et al., 95k:86001
- Springer, J. Modeling of geological surfaces using finite elements. (English summary) 95g:86002
- Verwer, J. G. see Hundsdoerfer, Willem; et al., 95m:86001
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- Wiscombe, Warren see Davis, Anthony; et al., 95j:86001

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- Albertson, John D. see Katul, Gabriel G.; et al., 95c:86009
- Attenborough, K. (with Taherzadeh, S.; Bass, H. E.; et al.) Benchmark cases for outdoor sound propagation models. (English summary) 95i:76090
- Bass, H. E. see Attenborough, K.; et al., 95i:76090
- Castro Diaz, Manuel Jesus (with Parés, Carlos; Macías, J.) Numerical modelling of the Alboran Sea. (see 95c:76001)
- Cheverda, V. A. see Voronina, T. A., 95g:86007
- Chu, Chia R. see Katul, Gabriel G.; et al., 95c:86009
- Dargahi-Noubary, G. R. Stochastic modeling and identification of seismic records based on established deterministic formulations. (English summary) 95m:86007
- Ewing, Richard E. see Wang, Hong, 95m:65153
- (Foufoula-Georgiou, Ef) see Wavelets in geophysics, 95d:86002
- Gamage, Nimal K. K. see Hagelberg, Carl R., 95f:86004
- Genco, M. L. see Lyard, F., 95c:86004
- Gill, Andrew W. (with Sneddon, G. E.; Hosking, R. J.) Matrix methods in barotropic stability analysis. (English summary) 95d:76071
- Guo, Ben Yu (with Zheng, Jia Dong) A spectral approximation of the barotropic vorticity equation. (English summary) 95d:65098
- Guttorp, Peter see Percival, Donald B., 95c:86006
- Hagelberg, Carl R. (with Gamage, Nimal K. K.) Applications of structure preserving wavelet decompositions to intermittent turbulence: a case study. (English summary) 95f:86004
- Haidvogel, Dale see Song, Yube, 95f:86003
- Holmgren, Pär An advection algorithm and an atmospheric airflow application. (English summary) 95f:86005
- Hosking, R. J. see Gill, Andrew W.; et al., 95d:76071
- Ifin, Valentin P. (with Larin, M. R.) On iterative solution of Helmholtz' equations on a sphere. (English summary) 95c:65087
- Ji, Zhong Zhen see Wang, Bin, 95c:65056
- Katul, Gabriel G. (with Albertson, John D.; Chu, Chia R.; Parlange, Marc B.) Intermittency in atmospheric surface layer turbulence: the orthonormal wavelet representation.

(English summary) 95e:86009

Kawahara, Mutsuto (with Shimada, Yoshiro) Gradient method of optimal control applied to the operation of a dam water gate. (English summary)

Kijko, Andrzej Seismological outliers: L_1 or adaptive L_p norm application. (English summary) 95f:86008

Kochergin, V. P. A method of determining water surface slopes in ocean dynamics problems. (English summary) 95i:86001

(Kumar, Praveen) *see* Wavelets in geophysics, 95d:86002

Larin, M. R. *see* Il'in, Valentin P., 95e:65087

Lehmann, Rüdiger Maximum entropy distributions for mass anomalies inside the Earth subject to spectral gravity field constraints. 95a:86006

Liu, Paul C. Wavelet spectrum analysis and ocean wind waves. (English summary) 95f:86001

Lyard, F. (with Genco, M. L.) Optimisation methods for bathymetry and open boundary conditions in a finite element model of ocean tides. (English summary) 95e:86004

Macias, J. *see* Castro Diaz, Manuel Jesus; et al., (95c:76001)

Marchuk, G. I. Adjoint equations and global change problems. (English summary) 95i:65085

Margolin, Len G. *see* Smolarkiewicz, Piotr K., 95k:86008

Moiseenko, V. A. (with Saenko, O. A.; Sarkisyan, A. S.) Ocean state diagnosis based on the Kalman smoother. (English summary) 95k:86002

Novik, O. B. The Galerkin method for a three-dimensional nonlinear system of equations of magnetohydroelasticity. (Russian) 95e:73035

Onishi, Kazuei Some numerical solutions of the shallow water equations. (English summary) 95c:76088

Parés, Carlos *see* Castro Diaz, Manuel Jesus; et al., (95c:76001)

Parlange, Marc B. *see* Katul, Gabriel G.; et al., 95e:86009

Peggion, Germana Numerical inaccuracies across the interface of a nested grid. (English summary) 95c:65135

Percival, Donald B. (with Guttorp, Peter) Long-memory processes, the Allan variance and wavelets. (English summary) 95e:86006

Rakimgulov, K. B. (with Ukhinov, S. A.) Local estimates in Monte Carlo method for the ocean-atmosphere system with a random interface. (English summary) 95k:86003

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- Kaplan, A. A. (with Tichatschke, Rainer) ★ Stable methods for ill-posed variational problems. (English summary) 95h:90003
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90-03 Historical (must also be assigned at least one classification number from Section 01)

Petrić, Jovan Development of operations research in Yugoslavia—a comprehensive survey. (English summary)

Items with secondary classifications in 90-03

(Duvillard de Durand, E.-E.) see Israel, Giorgio

Grattan-Guinness, Ivor "A new type of question": on the prehistory of linear and non-linear programming, 1770-1940. (English summary) 95b:01001

Israel, Giorgio The two paths of the mathematization of the social and economic sciences. (English summary)

Macrae, Norman ★ John von Neumann. (English summary) 95g:01023
(von Neumann, John) see Macrae, Norman, 95g:01023

Items listed otherwise than by author

Biography:

von Neumann, John see Macrae, Norman, 95g:01023

90-04 Explicit machine computation and programs (not the theory of computation or programming)

Aleksandrova, V. M. see Pshenichnyi, B. N.; et al.

Nemhauser, George L. (with Savelsbergh, Martin W. P.; Sigismondi, Gabriele C.) MINTO, a mixed integer optimizer. (English summary)

Pshenichnyi, B. N. (with Sobolenko, L. A.; Sosnovskii, A. A.; Aleksandrova, V. M.; Shul'zhenko, Yu. V.) The METLIN-PC applied program package for solving mathematical programming problems. (Russian. English and Ukrainian summaries)

Savelsbergh, Martin W. P. see Nemhauser, George L.; et al.

Shul'zhenko, Yu. V. see Pshenichnyi, B. N.; et al.

Sigismondi, Gabriele C. see Nemhauser, George L.; et al.

Sobolenko, L. A. see Pshenichnyi, B. N.; et al.

Sosnovskii, A. A. see Pshenichnyi, B. N.; et al.

Items with secondary classifications in 90-04

Berlekamp, Elwyn (with Wolfe, David) ★ Mathematical Go. (English summary) 95i:90131

Brunelli, R. (with Tecchiolli, G. P.) Stochastic minimization with adaptive memory. (English summary)

Campos, V. (with Savall, J. V.) A computational study of several heuristics for the DRPP. (English summary)

(Davies, James) see Berlekamp, Elwyn, 95i:90131

Mathar, Rudolf (with Žilinskas, Antanas) A class of test functions for global optimization. (English summary)

Ng, Kevin Y. K. Symbolic computations in operations research. (English summary)

Savall, J. V. see Campos, V.

Setiono, Rudy Interior dual least 2-norm algorithm for linear programs. (English summary) 95b:90050

Tecchiolli, G. P. see Brunelli, R.

Wolfe, David see Berlekamp, Elwyn, 95i:90131

Žilinskas, Antanas see Mathar, Rudolf

90-06 Proceedings, conferences, collections, etc.

(Andreatta, G. B.) see Stochastic programming, 95m:90012

(Bachem, Achim) see Operations research '93, 95b:90005

(Balci, O.) see Simulation and modeling, 95g:90005

(Brucker, Peter) see Workshop: Discrete Algorithms, 95k:90007

(Cook, William) see Combinatorial optimization, 95m:90008

(Delgado, Miguel) see Fuzzy optimization, 95i:90007

(Derigs, Ulrich) see Operations research '93, 95b:90005

(Du, Ding Zhu) see Advances in optimization and approximation, 95m:90006

(Floudas, Christodoulos A.) see Conference: Computational Methods in Global Optimization, 95d:90005 and 95d:90006

(Guddat, Jürgen) see Parametric optimization, 95m:90011

(Habenicht, W.) see Special Issue: Decision theory, 95i:90008

(Hager, William W.) see Large scale optimization, 95f:90004

(Hearn, D. W.) see Large scale optimization, 95f:90004

(Henry, Jacques) see System modelling and optimization, 95d:90008

(Jünger, Michael) see Operations research '93, 95b:90005

(Kacprzyk, Janusz) see Fuzzy optimization, 95i:90007

(Korolev, L. N.) see Systems programming and models in operations research, 95d:90009

(Krasnoschekov, P. S.) see Systems programming and models in operations research, 95d:90009

(Krus, Lech) see Decision support in negotiations and policy determination, 95b:90002

(Lovász, László) see Combinatorial optimization, 95m:90008

(Maculan, Nelson) see Applications of combinatorial optimization, 95c:90003

(Malanowski, Kazimierz) see Parametric optimization, 95b:90004

(Maschler, Michael) see Essays: Game theory, 95c:90006

(Megiddo, Nimrod) see Essays: Game theory, 95c:90006

(Mosler, Karl) see Decision theory and decision systems, 95d:90007

(Nahorski, Zbigniew) see Decision support in negotiations and policy determination, 95b:90002 and Support for decision and negotiation processes, 95c:90005

(Owsiński, Jan W.) see Decision support in negotiations and policy determination, 95b:90002 and Support for decision and negotiation processes, 95c:90005

(Papathanassiou, Byron) see Conference: Operations Research, 95f:90003

(Pardalos, Panos M.) see Quadratic assignment and related problems, 95b:90005; Conference: Computational Methods in Global Optimization, 95d:90005; 95d:90006 and Large scale optimization, 95f:90004

(Rachev, Svetlozar T.) see Stochastic programming: stability, numerical methods and applications, 95m:90013

(Ribeiro, Celso Carneiro) see Applications of combinatorial optimization, 95c:90003

(Römsch, W.) see Stochastic programming: stability, numerical methods and applications, 95m:90013

(Rückmann, Jan-J.) see Parametric optimization, 95m:90011

(Salinetti, Gabriella) see Stochastic programming, 95m:90012

(Schader, Martin) see Decision theory and decision systems, 95d:90007

(Schader, Rainer) see Operations research '93, 95b:90005

(Seymour, P. D.) see Combinatorial optimization, 95m:90008

(Soubeyran, Antoine) see Special Issue: Competition and non-profit-maximizing firms, 95a:90003

(Spedicato, Emilio) see Algorithms for continuous optimization, 95i:90006

(Sun, Jie) see Advances in optimization and approximation, 95m:90006

(Thisse, Jacques-François) see Special Issue: Competition and non-profit-maximizing firms, 95a:90003

(Tzeng, G. H.) see Multiple criteria decision making, 95f:90005

(Verdegay, José Luis) see Fuzzy optimization, 95i:90007

(Vila, Maria Amparo) see Fuzzy optimization, 95i:90007

(Wang, Hsiao Fan) see Multiple criteria decision making, 95f:90005

(Wanka, Gert) see Special Issue: Decision theory, 95i:90008

(Wärneryd, Karl) see Symposium: Game Theory, 95i:90009

(Weibull, Jörgen W.) see Symposium: Game Theory, 95i:90009

(Wen, Yü Ping) see Multiple criteria decision making, 95f:90005

(Wets, Roger J.-B.) see Stochastic programming, 95m:90012

(Wolkowicz, Henry) see Quadratic assignment and related problems, 95b:90005

(Woodford, Michael) see Bounded rationality and learning, 95c:90005

(Yannelis, Nicholas C.) see Bounded rationality and learning, 95c:90005

(Yu, Po Lung) see Multiple criteria decision making, 95f:90005

(Yvon, Jean-Pierre) see System modelling and optimization, 95d:90008

(Zwick, Daniel S.) see Algorithms for constrained approximation and optimization, 95m:90007

Items listed otherwise than by author

Advances in optimization and approximation ★ Advances in optimization and approximation. 95m:90006

Algorithms for constrained approximation and optimization ★ Algorithms for constrained approximation and optimization. 95m:90007

Algorithms for continuous optimization ★ Algorithms for continuous optimization. 95i:90006

Applications of combinatorial optimization ★ Applications of combinatorial optimization. 95c:90003

Birthday:

Maschler, Michael ★ Essays in game theory. 95c:90006

Björkborn ★ Nobel Symposium on Game Theory. 95i:90009

Bounded rationality and learning ★ Bounded rationality and learning. 95c:90005

Cologne ★ Operations research '93. 95b:90005

Combinatorial optimization ★ Combinatorial optimization. 95m:90008

Compiègne ★ System modelling and optimization. 95f:90008

Computer systems and problems in decision making ★ Computer systems and problems in decision making. Software and models of systems analysis. 95m:90009

Conference:

Computational Methods in Global Optimization ★ Conference on Computational Methods in Global Optimization. I. 95d:90005

— ★ Conference on Computational Methods in Global Optimization. II. 95d:90006

Game Theory ★ Essays in game theory. 95c:90006

Large Scale Optimization ★ Large scale optimization. 95f:90004

Multiple Criteria Decision Making ★ Multiple criteria decision making. 95f:90005

Operations Research ★ Selected papers from the 2nd Balkan Conference on Operations Research. 95f:90003

Stochastic Programming ★ Stochastic programming. 95m:90012

Decision support in negotiations and policy determination ★ Decision support in negotiations and policy determination. 95b:90002

Decision theory and decision systems ★ Decision theory and decision systems. 95d:90007

Essays:

Game theory ★ Essays in game theory. 95c:90006

Fehrenbach ★ Special Issue: Decision theory. 95i:90008

Fuzzy optimization ★ Fuzzy optimization. 95i:90007

Gainesville, FL ★ Large scale optimization. 95f:90004

Gosen ★ Stochastic programming: stability, numerical methods and applications. 95m:90013

IFIP Conference:

System Modelling and Optimization ★ System modelling and optimization. 95d:90008

Il Ciocco ★ Algorithms for continuous optimization. 95i:90006

Large scale optimization ★ Large scale optimization. 95f:90004

Lecture Notes in Control and Information Sciences ★ System modelling and optimization. 95d:90008

Mathematical optimization and its applications ★ Saitekika no sūri to sono ōyō. (Japanese) [Mathematical optimization and its applications] 95b:90003

Mathematical structure of optimization theory ★ Saitekika riron to sūri kōzō. (Japanese) [Mathematical structure of optimization theory] 95m:90010

Multiple criteria decision making ★ Multiple criteria decision making. 95f:90005

NATO Advanced Study Institute:

Algorithms for Continuous Optimization: the State of the Art ★ Algorithms for continuous optimization. 95i:90006

New Brunswick, NJ ★ Quadratic assignment and related problems. 95b:90005

— ★ Combinatorial optimization. 95m:90008

- Nonlinear analysis and mathematical economics** ★ Hisenkei kaiseigaku to sūri keizaigaku no kenkyū. (Japanese) [Nonlinear analysis and mathematical economics] 95k:90006
- Operations research '93** ★ Operations research '93. 95b:90005
- Osabrück** ★ Workshop on Discrete Algorithms. 95k:90007
- Parametric optimization** ★ Parametric optimization. 95b:90004
- ★ Parametric optimization. 95m:90011
- Princeton, NJ** ★ Conference on Computational Methods in Global Optimization. I. 95d:90005
- ★ Conference on Computational Methods in Global Optimization. II. 95d:90006
- Quadratic assignment and related problems** ★ Quadratic assignment and related problems. 95b:90005
- Schwangau** ★ Special Issue: Decision theory. 95i:90008
- Simulation and modeling** ★ Simulation and modeling. 95g:90005
- Software and models of systems analysis** ★ Computer systems and problems in decision making. Software and models of systems analysis. 95m:90009
- Software and operations research models. Systems programming and problems of optimization** ★ Software and operations research models. Systems programming and problems of optimization. 95c:90004
- Special Issue:**
- Bounded rationality and learning** ★ Bounded rationality and learning. 95e:90005
- Competition and non-profit-maximizing firms** ★ Special issue: competition and non-profit-maximizing firms. 95a:90003
- Decision support in negotiations and policy determination** ★ Decision support in negotiations and policy determination. 95b:90002
- Decision theory** ★ Special Issue: Decision theory. 95i:90008
- Parametric optimization** ★ Parametric optimization. 95b:90004
- ★ Parametric optimization. 95m:90011
- Special Year:**
- Combinatorial Optimization** ★ Combinatorial optimization. 95m:90008
- Stochastic programming** ★ Stochastic programming. 95m:90012
- Stochastic programming: stability, numerical methods and applications** ★ Stochastic programming: stability, numerical methods and applications. 95m:90013
- Stony Brook, NY** ★ Essays in game theory. 95c:90006
- Stowe, VT** ★ Algorithms for constrained approximation and optimization. 95m:90007
- Support for decision and negotiation processes** ★ Support for decision and negotiation processes. 95c:90005
- Symposium:**
- Game Theory** ★ Nobel Symposium on Game Theory. 95i:90009
- Mathematical Optimization and its Applications** ★ Saitekika no sūri to sono ōyō. (Japanese) [Mathematical optimization and its applications] 95b:90003
- Mathematical Structure of Optimization Theory** ★ Saitekika riron to sūri kōzō. (Japanese) [Mathematical structure of optimization theory] 95m:90010
- Nonlinear Analysis and Mathematical Economics** ★ Hisenkei kaiseigaku to sūri keizaigaku no kenkyū. (Japanese) [Nonlinear analysis and mathematical economics] 95k:90006
- Operations Research** ★ Operations research '93. 95b:90005
- System modelling and optimization** ★ System modelling and optimization. 95d:90008
- Systems programming and models in operations research** ★ Системное программирование и модели исследования операций. (Russian) [Systems programming and models in operations research] 95d:90009
- Systems programming and problems of optimization** ★ Software and operations research models. Systems programming and problems of optimization. 95c:90004
- Taipei** ★ Multiple criteria decision making. 95f:90005
- Thessaloniki** ★ Selected papers from the 2nd Balkan Conference on Operations Research. 95f:90003
- Udine** ★ Stochastic programming. 95m:90012
- Warsaw** ★ Support for decision and negotiation processes. 95c:90005
- Workshop:**
- Algorithms for Constrained Approximation and Optimization** ★ Algorithms for constrained approximation and optimization. 95m:90007
- Decision Theory and Practice** ★ Special Issue: Decision theory. 95i:90008
- Discrete Algorithms** ★ Workshop on Discrete Algorithms. 95k:90007
- Quadratic Assignment and Related Problems** ★ Quadratic assignment and related problems. 95b:90005
- Stochastic Programming: Stability, Numerical Methods and Applications** ★ Stochastic programming: stability, numerical methods and applications. 95m:90013
- Support for Decision and Negotiation Processes** ★ Support for decision and negotiation processes. 95c:90005
- Items with secondary classifications in 90-06**
- (Aliprantis, Charalambos D.) see Positive operators, Riesz spaces, and economics, 95g:46001
- (Aumann, Robert J.) see Handbook: Game theory with economic applications, 95i:90005
- (Border, Kim C.) see Positive operators, Riesz spaces, and economics, 95g:46001
- (Céa, Jean) see Optimization and control, 95b:49004
- (Cohen, Guy) see Conference: Analysis and Optimization of Systems, 95b:93004
- (Desidéri, J.-A.) see Optimization and control, 95b:49004
- (Elster, Karl-Heinz) see Modern mathematical methods of optimization, 95d:90004
- (Fézoui, Loula) see Optimization and control, 95b:49004
- (Gómez, Susana) see Advances in optimization and numerical analysis, 95a:00010
- (Hart, Sergiu) see Handbook: Game theory with economic applications, 95i:90005
- (Helmeke, Uwe) see Systems and networks: mathematical theory and applications, 95c:93006
- (Hennart, Jean Pierre) see Advances in optimization and numerical analysis, 95a:00010
- (Hildenbrand, Werner) see Handbook: Mathematical economics, 95a:90001
- (Larrourou, Bernard) see Optimization and control, 95b:49004
- (Luderer, B.) see Modern mathematical methods of optimization, 95d:90004
- (Luxemburg, Wilhelmus A. J.) see Positive operators, Riesz spaces, and economics, 95g:46001
- (Mennicken, Reinhard) see Systems and networks: mathematical theory and applications, 95c:93006
- (Quadrat, Jean-Pierre) see Conference: Analysis and Optimization of Systems, 95b:93004

- (Rousset, Bernard) see Optimization and control, 95b:49004
- (Samarskii, A. A.) see Mathematical models and optimization of computational algorithms, 95j:00012
- (Saurer, Josef) see Systems and networks: mathematical theory and applications, 95c:93006
- (Sonnenschein, Hugo) see Handbook: Mathematical economics, 95a:90001
- (Tikhonov, A. N.) see Mathematical models and optimization of computational algorithms, 95j:00012

Items listed otherwise than by author

- Advances in optimization and numerical analysis** ★ Advances in optimization and numerical analysis. 95a:00010
- Birthday:**
- Céa, Jean** ★ Optimisation et contrôle. (French) [Optimization and control] 95b:49004
- Colloquium:**
- Céa, Jean** ★ Optimisation et contrôle. (French) [Optimization and control] 95b:49004
- Computer systems and problems in decision making** ★ Direct and inverse problems in mathematical physics. Computer systems and problems in decision making.
- Conference:**
- Analysis and Optimization of Systems** ★ 11th International Conference on Analysis and Optimization of Systems. 95b:93004
- Riesz Spaces, Positive Operators, and their Applications to Economics** ★ Positive operators, Riesz spaces, and economics. 95g:46001
- Direct and inverse problems in mathematical physics** ★ Direct and inverse problems in mathematical physics. Computer systems and problems in decision making.
- Handbook:**
- Game theory with economic applications** ★ Handbook of game theory with economic applications. Vol. II. 95i:90005
- Mathematical economics** ★ Handbook of mathematical economics. Vol. IV. 95a:90001
- Lecture Notes in Control and Information Sciences** ★ 11th International Conference on Analysis and Optimization of Systems. 95b:93004
- Mathematical models and optimization of computational algorithms** ★ Математические модели и оптимизация вычислительных алгоритмов. (Russian) [Mathematical models and optimization of computational algorithms] 95j:00012
- Modern mathematical methods of optimization** ★ Modern mathematical methods of optimization. 95d:90004
- Oaxaca** ★ Advances in optimization and numerical analysis. 95a:00010
- Optimal control of dynamical systems** ★ Software and models of systems analysis. Optimal control of dynamical systems. 95k:00020
- Optimisation et contrôle** ★ Optimisation et contrôle. (French) [Optimization and control] 95b:49004
- Optimization and control** ★ Optimisation et contrôle. (French) [Optimization and control] 95b:49004
- Pasadena, CA** ★ Positive operators, Riesz spaces, and economics. 95g:46001
- Positive operators, Riesz spaces, and economics** ★ Positive operators, Riesz spaces, and economics. 95g:46001
- Regensburg** ★ Systems and networks: mathematical theory and applications. Vol. I. 95c:93006
- Software and models of systems analysis** ★ Software and models of systems analysis. Optimal control of dynamical systems. 95k:00020
- Sophia-Antipolis** ★ Optimisation et contrôle. (French) [Optimization and control] 95b:49004
- ★ 11th International Conference on Analysis and Optimization of Systems. 95b:93004
- Symposium:**
- Mathematical Theory of Networks and Systems** ★ Systems and networks: mathematical theory and applications. Vol. I. 95c:93006
- Systems and networks: mathematical theory and applications** ★ Systems and networks: mathematical theory and applications. Vol. I. 95c:93006
- Workshop:**
- Optimization and Numerical Analysis** ★ Advances in optimization and numerical analysis. 95a:00010

90Axx Mathematical economics {For econometrics, see 62P20.}

- Anderson, Robert M. Nonstandard analysis with applications to economics. (see 95a:90001)
- Jackson, Stephen Craig (with Mauldin, R. Daniel) Borel measurable selections of Paretian utility functions. (English summary)
- Mauldin, R. Daniel see Jackson, Stephen Craig

Items with secondary classifications in 90Axx

- (Aumann, Robert J.) see Handbook: Game theory with economic applications, 95i:90005
- Eichberger, Jürgen ★ Game theory for economists. (English summary) 95j:90001
- (Hart, Sergiu) see Handbook: Game theory with economic applications, 95i:90005
- (Hildenbrand, Werner) see Handbook: Mathematical economics, 95a:90001
- (Sonnenschein, Hugo) see Handbook: Mathematical economics, 95a:90001

Items listed otherwise than by author

- Handbook:**
- Game theory with economic applications** ★ Handbook of game theory with economic applications. Vol. II. 95i:90005
- Mathematical economics** ★ Handbook of mathematical economics. Vol. IV. 95a:90001

90A05 Decision theory [see also 62Cxx, 90B50, 90D35]

- Aleskerov, F. T. Multicriteria interval choice models. (English summary) 95g:90006
- Banerjee, Asis Fuzzy choice functions, revealed preference and rationality. (English summary) 95m:90014

- Baranov, V. V. Dynamic diagnostics and decision-making under uncertainty conditions. (Russian. English and Ukrainian summaries)
- Bezembinder, Thom *see* Maas, Arne; et al.
- Bicchieri, Cristina ★ Rationality and coordination. (English summary) 95d:90010
- Brady, Michael E. On the application of J. M. Keynes's approach to decision making. (English summary)
- Burkov, V. N. (with Enaleev, A. K.) Stimulation and decision-making in the active system theory. (English summary)
- Castagnoli, Erio Order-preserving functions and decision problems. (Italian) (see 95j:00018)
- Chang, Ping-Teng (with Lee, E. Stanley) The estimation of normalized fuzzy weights. (English summary) 95k:90008
- Chen, Shi Ming (with Tan, Jimmy J. M.) Handling multicriteria fuzzy decision-making problems based on vague set theory. (English summary) 95f:90006
- Davis, Donald B. (with Paté-Cornell, M.-Elisabeth) A challenge to the compound lottery axiom: a two-stage normative structure and comparison to other theories. (English summary) 95j:90007
- (Dubois, Didier) *see* Kitainik, Leonid, 95a:90004
- (Dyer, James S.) *see* Mikhalevich, M. V.
- Eichhorn, Wolfgang (with Funke, Helmut; Kertscha, Manfred) How to achieve synthesized ratio judgements: the complete solution of a problem. (English summary) 95h:90006
- Enaleev, A. K. *see* Burkov, V. N.
- Fang, Wei Wu Disagreement degree of multi-person judgements in an additive structure. (English summary)
- Fishburn, Peter C. *see* Lavalley, Irving H., 95f:90007
- Franssen, Maarten Constrained maximization reconsidered—an elaboration and critique of Gauthier's modelling of rational cooperation in a single prisoner's dilemma. (English summary) 95i:90010
- Funke, Helmut *see* Eichhorn, Wolfgang; et al., 95h:90006
- Gale, Douglas Dynamic coordination games. (English summary) 95j:90008
- Gisin, V. B. On transitivity of strict preference relations. (English summary)
- Golubtsov, P. V. Fuzzy set theory as an uncertainty theory and decision-making problems in a fuzzy experiment. (Russian. Russian summary) 95i:90011
- Gulyanitskii, L. F. (with Volkovich, O. V.; Malysko, S. A.) An approach to the formalization and investigation of group choice problems. (Russian. English and Ukrainian summaries)
- Kitainik, Leonid ★ Fuzzy decision procedures with binary relations. (English summary) 95a:90004
- Kertscha, Manfred *see* Eichhorn, Wolfgang; et al., 95h:90006
- Laffond, Gilbert (with Laslier, J.-F.; Le Breton, M.) The Copeland measure of Condorcet choice functions. (English summary) 95m:90015
- Laslier, J.-F. *see* Laffond, Gilbert; et al., 95m:90015
- Lavalley, Irving H. (with Fishburn, Peter C.) Elementary extensions to theorems of the alternative. (English summary) 95f:90007
- Le Breton, M. *see* Laffond, Gilbert; et al., 95m:90015
- Lee, E. Stanley *see* Chang, Ping-Teng, 95k:90008
- Li, Guang Quan *see* Zheng, Pi E; et al.
- Li, Hong Xing Factor spaces and fuzzy decision-making. (Chinese. English and Chinese summaries)
- López, Miguel Adding information to influence diagrams. (English summary) 95k:90009
- Maas, Arne (with Bezembinder, Thom; Wakker, Peter) On solving intransitivities in repeated pairwise choices. (English summary)
- Maher, Patrick ★ Betting on theories. (English summary) 95j:90009
- Malishevskii, A. V. Path independence in serial-parallel data processing. (English summary) 95m:90016
- Malysko, S. A. *see* Gulyanitskii, L. F.; et al.
- Mazurov, Vi. D. Models of contradictory data interpretation and the committee method. (Russian. English and Russian summaries) (see 95d:00016)
- Mikhalevich, M. V. Remarks on a discussion between J. Dyer and T. Saaty. (Russian. English and Ukrainian summaries)
- Nitzan, Shmuel The likelihood of inefficiency, a prisoner's dilemma and suboptimality in games of binary voluntary provision of public goods. (English summary) 95c:90006
- Nogin, V. D. Upper estimate for a fuzzy set of nondominated solutions. (English summary)
- Paté-Cornell, M.-Elisabeth *see* Davis, Donald B., 95j:90007
- Peris, Josep E. (with Subiza, Begoña) Maximal elements of not necessarily acyclic binary relations. (English summary) 95c:90007
- (Prade, Henri) *see* Kitainik, Leonid, 95a:90004
- Preater, J. On multiple choice secretary problems. (English summary) 95c:90007
- Puppe, Clemens ★ Distorted probabilities and choice under risk. 95c:90008
- Rios Insua, David *see* Rios-Insua, Sixto, (95c:00038)
- Rios-Insua, Sixto (with Rios Insua, David) Complex decision problems: coherent treatment. (Spanish. English summary) (see 95c:00038)
- Rotar, V. I. (with Sholomitskii, A. G.) On the Pollatsek-Tversky theorem on risk. (English summary) 95f:90008
- (Saaty, Thomas L.) *see* Mikhalevich, M. V.
- Sheng, Zhao Han *see* Xia, Hong Sheng; et al.
- Sholomitskii, A. G. *see* Rotar, V. I., 95f:90008
- Smirnov, M. M. On the problem of the "correct" development of multiproduct networks. (Russian. Russian summary)
- Smolyak, S. A. Comparison criteria for fuzzy alternatives. (English summary) 95d:90011
- Sobel, Jordan Howard ★ Taking chances. (English summary) 95m:90017
- Subiza, Begoña *see* Peris, Josep E., 95c:90007
- Tan, Jimmy J. M. *see* Chen, Shi Ming, 95f:90006
- Thomson, William L. Consistent extensions. (English summary) 95h:90007
- Volkovich, O. V. *see* Gulyanitskii, L. F.; et al.
- Wakker, Peter *see* Maas, Arne; et al.
- Wang, Chun Feng *see* Zheng, Pi E; et al.
- Wang, Huan Chen *see* Xia, Hong Sheng
- Xia, Hong Sheng (with Sheng, Zhao Han; Xu, Nan Rong) A bilevel decision-making algorithm for the case of multiple, noninterconnected persons. (Chinese. English summary)
- The decision-making problem with a game relation. (Chinese. English and Chinese summaries)
- Xia, Hong Sheng (with Wang, Huan Chen) An interactive algorithm for two-level multiobjective decision-making with several decision makers interconnected. (Chinese. English and Chinese summaries)
- Xu, Nan Rong *see* Xia, Hong Sheng; et al.
- Yager, Ronald R. An approach to ordinal decision making. (English summary)
- Zheng, Pi E (with Wang, Chun Feng; Li, Guang Quan) Multiperson hierarchical decision-making with security followers. (Chinese. English and Chinese summaries)
- Items with secondary classifications in 90A05
- Abbas, M. (with Vincke, Ph.) A new fundamental preference structure: threshold order. (English summary) 95i:90012
- Aumann, Robert J. Backward induction and common knowledge of rationality. (English summary) 95m:90165
- Bogdanchuk, V. Z. *see* Katulev, A. N.; et al.
- Bogotoff, Peter ★ Non-cooperative planning theory.
- Borzenko, V. I. (with Matakova, F. M.) Minimization of queries to a decision-maker in approximate methods for solving multicriterial problems. (Russian. Russian summary)
- Brunner, Johannes ★ Interaktive Fuzzy Optimierung. (German. German summary) [Interactive fuzzy optimization]
- Casares de Cal, Ma. de los Angeles Approximation of nonconical preference relations in multiple-criteria decision problems. (English summary) 95a:90093
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- (with Zhang, Qing¹; Zhou, Xun Yu) Hierarchical controls in stochastic manufacturing systems with convex costs. (English summary) 95a:93136
- Tanguiane, Andranick S. Arrow's paradox and mathematical theory of democracy. (English summary) 95c:90018
- (Tzeng, G. H.) *see* Multiple criteria decision making, 95f:90005
- (Wang, Hsiao Fan) *see* Multiple criteria decision making, 95f:90005
- (Wanka, Gert) *see* Special Issue: Decision theory, 95i:90008
- (Wen, Yü P'ing) *see* Multiple criteria decision making, 95f:90005
- (Yu, Po Lung) *see* Multiple criteria decision making, 95f:90005
- Zhang, Qing¹ *see* Sethi, Suresh P.; et al., 95a:93136 and 95j:90006
- Zhou, Xun Yu *see* Sethi, Suresh P.; et al., 95a:93136

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- Fehrenbach ★ Special Issue: Decision theory. 95i:90008
- Multiple criteria decision making ★ Multiple criteria decision making. 95f:90005
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- Special Issue:
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- Decision Theory and Practice ★ Special Issue: Decision theory. 95i:90008

90B60 Marketing, advertising [see also 90A60]

Items with secondary classifications in 90B60

- Sethi, Suresh P. (with Zhang, Qing¹) Multilevel hierarchical decision making in stochastic marketing-production systems. (English summary) 95m:90059
- Zhang, Qing¹ *see* Sethi, Suresh P., 95m:90059

90B70 Theory of organizations, industrial and manpower planning [see also 92H35]

- Berkovich, E. M. A priori knowledge and the problem of choosing operational conditions. (Russian. Russian summary)
- Hertz, Alain (with Jaumard, Brigitte; Ribeiro, Celso Carneiro) A graph theory approach to subcontracting, machine duplication and intercell moves in cellular manufacturing. (English and French summaries) 95c:90065
- Hu, Jian-Qiang *see* Liberopoulos, George
- Jaumard, Brigitte *see* Hertz, Alain; et al., 95c:90065
- Koulamas, Christos Lot size variability effects on manufacturing lead time. (English summary)
- Liberopoulos, George (with Hu, Jian-Qiang) On the ordering of optimal hedging points in a class of manufacturing flow control models. (English summary)
- Loulou, Richard *see* Qiu, Jin
- Qiu, Jin (with Loulou, Richard) Multiproduct production/inventory control under random demands. (English summary)
- Ribeiro, Celso Carneiro *see* Hertz, Alain; et al., 95c:90065
- Sethi, Suresh P. (with Zhang, Qing¹) Hierarchical production and setup scheduling in stochastic manufacturing systems. (English summary)
- Shi, Yong (with Yu, Po Lung; Zhang, Dazhi) Generating new designs using union operations. (English summary) 95b:90043
- Yu, Po Lung *see* Shi, Yong; et al., 95b:90043
- Zhang, Dazhi *see* Shi, Yong; et al., 95b:90043
- Zhang, Qing¹ *see* Sethi, Suresh P.

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- De Francesco, Carla (with Viscolani, Bruno) Optimal lead times and service rates in a multiservice system with bounded resources. (English summary)
- Hu, Jian-Qiang Production rate control for failure-prone production systems with no backlog permitted. (English summary)

Moriguti, Sigeki Asymptotic theory of selection by relative rank with medium cost.

(English summary) 95a:60058

Viscolani, Bruno *see* De Francesco, Carla

90B80 Discrete location and assignment [see also 90C10]

Adams, Warren P. (with Johnson, Terri A.) Improved linear programming-based lower bounds for the quadratic assignment problem. (English summary) 95m:90060

Andreatta, G. B. (with Mason, F. M.) A note on: "A perfect forward procedure for a single facility dynamic location/relocation problem" [Oper. Res. Lett. 12 (1992), no. 1, 11-16; MR 93f:90100] by M. Bastian and M. Volkmer. (English summary) 95g:90034

Averbakh, I. L. (with Berman, Oded; Simchi-Levi, David) Probabilistic a priori routing-location problems. (English summary)

(Bastian, M.) *see* Andreatta, G. B., 95g:90034

Berman, Oded *see* Averbakh, I. L.; et al.

Betts, Lisa M. (with Brown, J. Randall; Luss, Hanan) Minimax resource allocation problems with ordering constraints. (English summary) 95f:90038

Bongartz, Ingrid (with Calamai, Paul H.; Conn, Andrew R.) A projection method for l_p norm location-allocation problems. (English summary) 95b:90059

Brown, J. Randall *see* Betts, Lisa M.; et al., 95f:90038

Calamai, Paul H. *see* Bongartz, Ingrid; et al., 95b:90059

Conn, Andrew R. *see* Bongartz, Ingrid; et al., 95b:90059

Devillers, Olivier (with Golin, Mordecai) Dog bites postman: point location in the moving Voronoi diagram and related problems. (English summary) (see 95b:68002)

Durier, Roland A general framework for the one center location problem. (English summary) 95b:90044

Golin, Mordecai *see* Devillers, Olivier, (95b:68002)

Hudec, Oto (with Zimmermann, Karel) A service points location problem with min-max distance optimality criterion. 95f:90039

— Confined location of facilities on a graph. (English summary) 95b:90045

Ikebe, Yoshiko *see* Matsui, Tomomi; et al., 95e:90051

Ishii, Hiroaki¹ *see* Shiode, Shōgo

Johnson, Terri A. *see* Adams, Warren P., 95m:90060

Li, Hui A globally convergent algorithm for the multifacility location problem on a closed convex set. (Chinese. English summary)

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Marathe, M. V. *see* Ravi, R.; et al., 95e:90066

Mason, F. M. *see* Andreatta, G. B., 95g:90034

Matsui, Tomomi (with Tamura, Akihisa; Ikebe, Yoshiko) Algorithms for finding a K th best valued assignment. (English summary) 95e:90051

Nakai, Tōru (with Teraoka, Yoshinobu) A sequential stochastic assignment problem for a random sequence with unknown number of values per period. (English summary) 95g:90035

Pardalos, Panos M. (with Rendl, Franz; Wolkowicz, Henry) The quadratic assignment problem: a survey and recent developments. (English summary) 95f:90040

Pesamosca, Giancarlo On the optimality conditions for the Euclidean multifacility location problem in a tree. (English and Italian summaries) 95d:90038

Ravi, R. (with Sundaram, Ravi; Marathe, M. V.; Rosenkrantz, D. J.; Ravi, S. S.) Spanning trees short or small. (English summary) 95e:90066

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Rendl, Franz *see* Pardalos, Panos M.; et al., 95f:90040

Rosenkrantz, D. J. *see* Ravi, R.; et al., 95e:90066

Shiode, Shōgo (with Ishii, Hiroaki¹) A $(k|A_m)$ medianoid problem under competitive environment. (English summary)

Simchi-Levi, David *see* Averbakh, I. L.; et al.

Sundaram, Ravi *see* Ravi, R.; et al., 95e:90066

Tamura, Akihisa *see* Matsui, Tomomi; et al., 95e:90051

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Bandelt, Hans-Jürgen (with Crama, Yves; Spieksma, Frits C. R.) Approximation algorithms for multi-dimensional assignment problems with decomposable costs. (English summary) 95a:90079

Bhadury, J. (with Eiselt, H. A.) Stability of Nash equilibria in locational games. (English and French summaries) 95k:90129

Chepoi, V. D. (with Dumitrescu, Dumitru T.) Cluster analysis and facility location problems. (see 95b:68019)

Crama, Yves *see* Bandelt, Hans-Jürgen; et al., 95a:90079

Cyganski, David (with Vaz, Richard F.; Virball, V. Glenn) Quadratic assignment problems generated with the Palubetskii algorithm are degenerate. (English summary) 95d:90057

Dumitrescu, Dumitru T. *see* Chepoi, V. D., (95b:68019)

Durier, Roland Convex hull properties in location theory. (English summary) 95g:46038

Eiselt, H. A. *see* Bhadury, J., 95k:90129

Gaboune, B. (with Laporte, Gilbert; Soumis, F.) Optimal tool partitioning rules for numerically controlled punch press operations. (English and French summaries) 95d:90093

Goldberg, Jeffrey (with Szidarovsky, Ferenc) A model for determining emergency vehicle utilization under an infinite queue and location dependent service times. (English summary)

Laporte, Gilbert *see* Gaboune, B.; et al., 95d:90093

Liu, Zhen (with Towsley, Don) Optimality of the round-robin routing policy. (English summary) 95a:60126

Lovtsov, D. A. Information indices for the efficiency of the operation of automated systems for the control of complex dynamic plants. (Russian. Russian summary)

Sethi, Suresh P. (with Zhou, Xun Yu) Stochastic dynamic job shops and hierarchical production planning. (English summary)

Soumis, F. *see* Gaboune, B.; et al., 95d:90093

Spieksma, Frits C. R. *see* Bandelt, Hans-Jürgen; et al., 95a:90079

Szidarovsky, Ferenc *see* Goldberg, Jeffrey

Tamir, Arie A distance constrained p -facility location problem on the real line. (English summary) 95f:90057

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Vaz, Richard F. *see* Cyganski, David; et al., 95d:90057

Virball, V. Glenn *see* Cyganski, David; et al., 95d:90057

Zhou, Xun Yu *see* Sethi, Suresh P.

90B85 Continuous location

Carrizosa, E. (with Conde, E.; Muñoz-Márquez, Manuel; Puerto Albandoz, Justo) Planar point-objective location problems with nonconvex constraints: a geometrical construction. (English summary) 95j:90044

Conde, E. *see* Carrizosa, E.; et al., 95j:90044

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Puerto Albandoz, Justo *see* Carrizosa, E.; et al., 95j:90044

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Al-Khayyal, Faiz A. *see* Hoàng Tuy, 95h:90095

Hoàng Tuy (with Al-Khayyal, Faiz A.) Global optimization of a nonconvex single facility location problem by sequential unconstrained convex minimization. (English summary) 95h:90095

Wu, Shi Quan¹ A polynomial time algorithm for solving the Fermat-Weber location problem with mixed norms. (English summary) 95e:90056

90B99 None of the above, but in this section

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Szafran, N. *see* Lacolle, Bernard; et al., 95b:68185

Valentin, P. *see* Lacolle, Bernard; et al., 95b:68185

Xiong, De Qi (with Chen, Shou Yu) Fuzzy set theories and methods for municipal environmental quality assessments. (English summary)

90Cxx Mathematical programming [see also 49Mxx, 65Kxx]

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Johnson, Ellis L. (with Nemhauser, George L.) Recent developments and future directions in mathematical programming. (English summary)

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Nemhauser, George L. *see* Johnson, Ellis L.

90C05 Linear programming

Abeledo, Hernán G. (with Rothblum, Uriel G.) Courtship and linear programming. (English summary) 95m:90061

Adler, Ilan (with Beling, P. A.) Polynomial algorithms for linear programming over the algebraic numbers. (English summary) 95h:90060

Amaya, Jorge On the symmetric affine scaling algorithm for linear programming. (English summary) 95i:90031

Anstreicher, Kurt M. (with Terlaky, Tamás) A monotonic build-up simplex algorithm for linear programming. (English summary)

Beling, P. A. *see* Adler, Ilan, 95h:90060

Benjamin, Arthur T. Sensible rules for remembering duals—the S-O-B method. (English summary)

Bermúdez, B. (with Romero, I.) The projective method of Karmarkar. (Spanish. Spanish summary) (see 95f:90016)

Bixby, Robert E. (with Saltzman, Matthew J.) Recovering an optimal LP basis from an interior point solution. (English summary)

Borgwardt, K.-H. Verschärfung des Polynomialitätsbeweises für die erwartete Anzahl von Schattenecken im Rotationssymmetrie-Modell. (German summary) [Improving the proof of polynomiality for the expected number of shadow corners in the model of rotation symmetry] 95d:90039

Brown, Gerald G. (with Olson, Michael P.) Dynamic factorization in large-scale optimization. (English summary) 95a:90021

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Chen, Hsin-Der (with Pardalos, Panos M.; Saunders, Michael A.) The simplex algorithm with a new primal and dual pivot rule. (English summary) 95h:90061

Choi, In Chan (with Goldfarb, Donald) On solution-containing ellipsoids in linear programming. (English summary) 95a:90022

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Cooper, Colin Probabilistic analysis of two k -cluster problems. (English summary) 95a:90023

Curet, Norman D. A primal-dual simplex method for linear programs. (English summary) 95b:90046

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Dosios, Konstantinos (with Paparrizos, Konstantinos) A new exterior point algorithm for linear programming problems. (English summary) 95i:90032

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- Dulá, J. H.** Geometry of optimal value functions with applications to redundancy in linear programming. (English summary) **95f:90041**
- Dyer, Martin** (with Frieze, Alan M.) Random walks, totally unimodular matrices, and a randomized dual simplex algorithm. (English summary) **95c:90068**
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- Erlimin, I. I.** Lexicographic duality for improper problems of linear and quadratic programming. (Russian. English and Russian summaries) **95h:90063**
- Evtushenko, Yu. G.** (with Zhadan, V. G.) Stable barrier-projection and barrier-Newton methods in linear programming. (English summary) **95j:90045**
- Faibusovich, L. E.** Dikin's algorithm for matrix linear programming problems. (English summary) (see **95d:90008**)
— A Hamiltonian structure for generalized affine-scaling vector fields. (English summary) **95k:90036**
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- Gao, Zi You** see **Lu, Xin Ming**; et al.
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— (with Shaw, Dong X.) On the complexity of a class of projective interior point methods. (English summary) **95k:90037**
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- Greenberg, Harvey J.** The use of the optimal partition in a linear programming solution for postoptimal analysis. (English summary)
- Güler, Osman** Limiting behavior of weighted central paths in linear programming. (English summary) **95f:90042**
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- He, Bing Sheng** Further developments in an iterative projection and contraction method for linear programming. (English summary) **95a:90025**
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- Hochbaum, Dorit S.** (with Naor, Joseph) Simple and fast algorithms for linear and integer programs with two variables per inequality. (English summary) **95h:90066**
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— (with Roos, C.; Terlaky, Tamás) The theory of linear programming: skew symmetric self-dual problems and the central path. (English summary) **95b:90048**
- Ji, Jun** (with Ye, Yinyu) A complexity analysis for interior-point algorithms based on Karmarkar's potential function. (English summary) **95g:90036**
- Jörnsten, Kurt** (with Leisten, R.; Storøy, Sverre) Gradient schemes in iterative aggregation procedures for variable-aggregated LP-problems. (English summary) **95h:90067**
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- Lund, Carsten** (with Reingold, Nick) Linear programs for randomized on-line algorithms. (see **95b:68018**)
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- Monteiro, Renato D. C.** (with Tsuchiya, Takashi; Wang, Fei Yue) A simplified global convergence proof of the affine scaling algorithm. (English summary) **95c:90071**
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- Murty, Katta G.** On the complexity of a special basis problem in LP. (English summary) **95a:90027**
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- Osborne, M. R.** A modified barrier function method for linear programming. (English summary) (see **95m:90066**)
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— (with Ouyang, Zi Xiang) Moore-Penrose inverse simplex algorithms based on successive linear subprogramming approach. (English summary) **95m:90067**
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- Pardalos, Panos M.** (with Li, Yong; Hager, William W.) Linear programming approaches to the convex hull problem in R^n . (English summary) **95k:90038**
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- Pferschy, Ulrich** (with Hoàng Tuy) Linear programs with an additional rank two reverse convex constraint. (English summary) **95a:90030**
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- Tits, André L.** (with Zhou, Jian L.) A simple, quadratically convergent interior point algorithm for linear programming and convex quadratic programming. (English summary) (see **95f:90004**)
- Todd, Michael J.** Analysis of interior-point methods for linear programming problems with variable upper bounds. (English summary) **95b:90052**
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- programming. (English summary) 95b:90053
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- Ivanov, M. N. (with Maslov, E. P.) A problem of avoidance of a rotating segment. (English summary) 95c:90132
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- Berlekamp, Elwyn (with Wolfe, David) ★ Mathematical Go. (English summary) 95i:90131 (Davies, James) see Berlekamp, Elwyn, 95i:90131
- Følsgaard, A. V. Investigation of the discrete Gross model. (Russian. Russian summary) (see 95d:90009)
- Gale, David Mathematical entertainments. 95i:90130
- Heuer, Gerald A. (with Leopold-Wildburger, Ulrike) Fibonacci-type sequences and minimal solutions of discrete Silverman games. 95c:90126
- Leopold-Wildburger, Ulrike see Heuer, Gerald A., 95c:90126
- Lozovana, D. D. Strongly polynomial algorithms for the search for minimax paths in networks and for the solution of cyclic games. (Russian. English and Ukrainian summaries)
- Mookherjee, Dilip (with Sopher, Barry) Learning behavior in an experimental matching pennies game. (English summary)
- Sopher, Barry see Mookherjee, Dilip
- Vasil'ev, N. S. Equilibrium routing of ring networks. (Russian. Russian summary) 95m:90185
- Wolfe, David see Berlekamp, Elwyn, 95i:90131

Items with secondary classifications in 90D46

- Kan, Jia Hai (0, 1) matrices, combinatorial games and Ramsey problems. (Chinese. English and Chinese summaries) 95b:05148
- Sjöström, Tomas Implementation in undominated Nash equilibria without integer games. (English summary) 95a:90008
- Turnbull, Stephen J. Organizations as teams of automata. (English summary)

90D50 Discrete-time games

- Chernorutskii, V. V. see Izmailov, R. N.; et al., 95b:90193
- Izmailov, R. N. (with Pokrovskii, A. V.; Chernorutskii, V. V.) On a class of games of finite automata. (Russian. Russian summary) 95b:90193
- Phansalkar, V. V. (with Sastry, P. S.; Thathachar, M. A. L.) Absolutely expedient algorithms for learning Nash equilibria. (English summary) 95b:90195
- Pokrovskii, A. V. see Izmailov, R. N.; et al., 95b:90193
- Sastry, P. S. see Phansalkar, V. V.; et al., 95b:90195
- Thathachar, M. A. L. see Phansalkar, V. V.; et al., 95b:90195

Items with secondary classifications in 90D50

- Thomas, Wolfgang Finite-state strategies in regular infinite games. (English summary) 95k:68151

90D55 Games of timing

Items with secondary classifications in 90D55

- Gale, Douglas Dynamic coordination games. (English summary) 95j:90008

90D60 Probabilistic games; gambling

- Kakigi, Richard see Orkin, Michael
- Koutsougeras, Leonidas C. (with Yannelis, Nicholas C.) Convergence and approximation results for non-cooperative Bayesian games: learning theorems. (English summary) 95g:90108
- Megiddo, Nimrod On probabilistic machines, bounded rationality and average-case complexity. (English summary) 95g:90109
- Mohanty, B. K. A procedure for measuring uncertainties due to lack of information in a fuzzy game theory problem. (English summary)
- Orkin, Michael (with Kakigi, Richard) What is the worth of free casino credit?
- Yannelis, Nicholas C. see Koutsougeras, Leonidas C., 95g:90108

Items with secondary classifications in 90D60

- Geanakoplos, John D. Common knowledge. (see 95i:90005)
- Kalai, Ehud (with Lehrer, Ehud) Weak and strong merging of opinions. (English summary) 95j:90030
- Kozek, Andrzej S. A rule of thumb (not only) for gamblers. (English summary) 95m:60071
- Lehrer, Ehud see Kalai, Ehud, 95j:90030
- Pinelis, Iosif (with Yakowitz, Sid) The time until the final zero crossing of random sums with application to nonparametric bandit theory. (English summary) 95j:60071
- Schmitz, Norbert J. Minimax strategies for discounted "secretary problems" with interview costs. (English summary) 95j:60065
- Yakowitz, Sid see Pinelis, Iosif, 95j:60071

90D65 Hierarchical games

Items with secondary classifications in 90D65

- Lagunov, V. N. (with Sushkin, V. V.) ★ Многошаговые позиционные игры n лиц. (Russian. Russian summary) [Multistage positional n -person games] 95a:90002
- Petrosyan, L. A. The values of hierarchical differential games. (Russian. English and Russian summaries) 95b:90184
- Sushkin, V. V. see Lagunov, V. N., 95a:90002

90D70 Spaces of games

- Gilboa, Itzhak (with Schmeidler, David) Canonical representation of set functions. (English summary) 95m:90186
- Schmeidler, David see Gilboa, Itzhak, 95m:90186

90D80 Applications of game theory

Items with secondary classifications in 90D80

- Feldman, Barry A game-theoretic interpretation of the spin glass. (see 95a:00008)
- (with Nagel, Kai) Lattice games with strategic takeover. (see 95a:00008)
- Hung, Nguyen Manh (with Quyen, Nguyen Van) ★ Dynamic timing decisions under uncertainty. 95g:90003
- (Kemp, Murray C.) see Hung, Nguyen Manh, 95g:90003
- Nagel, Kai see Feldman, Barry, (95a:00008)
- Nerode, Anil (with Yakhnis, Alexander; Yakhnis, Vladimir) Concurrent programs as strategies in games. 95b:68048
- Quyen, Nguyen Van see Hung, Nguyen Manh, 95g:90003
- Straffin, Philip D., Jr. ★ Game theory and strategy. 95j:90002
- Szidarovszky, Ferenc (with Zsitvay, Tamás D.) Necessary and sufficient conditions for the existence of equilibria in general conflict models. (English summary) 95m:90164
- Yakhnis, Alexander see Nerode, Anil; et al., 95b:68048
- Yakhnis, Vladimir see Nerode, Anil; et al., 95b:68048
- Zsitvay, Tamás D. see Szidarovszky, Ferenc, 95m:90164

90D99 None of the above, but in this section

- Feldman, Barry (with Nagel, Kai) Lattice games with strategic takeover. (see 95a:00008)
- Nagel, Kai see Feldman, Barry, (95a:00008)

92-XX Biology and other natural sciences, behavioral sciences

92-01 Instructional exposition (textbooks, tutorial papers, etc.)

- Bailey, Norman T. J. ★ Statistical methods in biology. (English summary) 95k:92001
- Rowe, Glenn ★ Theoretical models in biology. (English summary) 95d:92001

Items with secondary classifications in 92-01

- Grauel, Adolf ★ Neuronale Netze. (German. German summary) [Neural networks] 95c:92003
- Kaandorp, Jaap A. ★ Fractal modelling. (English summary) 95m:92006
- (Karpov, A. P.) see Lyubich, Yu. I., 95f:92018
- Lyubich, Yu. I. ★ Mathematical structures in population genetics. (English summary) 95f:92018
- (Prusinkiewicz, P.) see Kaandorp, Jaap A., 95m:92006
- (Vul's, D.) see Lyubich, Yu. I., 95f:92018

92-02 Research exposition (monographs, survey articles)

Items with secondary classifications in 92-02

- Charlesworth, Brian ★ Evolution in age-structured populations. (English summary) 95f:92006
- Parberry, Ian ★ Circuit complexity and neural networks. (English summary) 95m:68143

92-03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 92-03

- (Ashford, Oliver M.) see Richardson, Lewis Fry, 95f:01039
- (Charnock, H.) see Richardson, Lewis Fry, 95f:01039
- (Drazin, P. G.) see Richardson, Lewis Fry, 95f:01039
- (Hunt, J. C. R.) see Richardson, Lewis Fry, 95f:01039
- Ongaro, Giuseppe Iatromathematics at the University of Padua and in the Veneto. (Italian) (see 95b:01006)
- Richardson, Lewis Fry ★ Collected papers of Lewis Fry Richardson. Vol. 2. 95f:01039
- (Smoker, P.) see Richardson, Lewis Fry, 95f:01039
- (Sutherland, Ian) see Richardson, Lewis Fry, 95f:01039

Items listed otherwise than by author

- Biography:
Richardson, Lewis Fry see Richardson, Lewis Fry, 95f:01039

Collected Works:

Richardson, Lewis Fry *see* Richardson, Lewis Fry, 95f:01039

92-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 92-04

- Alizadeh, Farid (with Karp, Richard M.; Newberg, L. A.; Weisser, D. K.) Physical mapping of chromosomes: a combinatorial problem in molecular biology. (English summary) 95m:92011a
Karp, Richard M. *see* Alizadeh, Farid; et al., 95m:92011a
Newberg, L. A. *see* Alizadeh, Farid; et al., 95m:92011a
Pevzner, Pavel A. DNA physical mapping and alternating Eulerian cycles in colored graphs. (English summary) 95m:92011b
Weisser, D. K. *see* Alizadeh, Farid; et al., 95m:92011a

92-06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 92-06

- (Bykov, V. I.) *see* Direct and inverse problems in chemical kinetics, 95c:00010
(Cheney, Margaret) *see* Tomography, impedance imaging, and integral geometry, 95c:00018
(Dagli, Cihan) *see* Artificial neural networks in engineering, 95i:93004
(Kuchment, Peter) *see* Tomography, impedance imaging, and integral geometry, 95c:00018
(Levin, Simon A.) *see* Patch dynamics, 95f:92024
(Powell, T. M.) *see* Patch dynamics, 95f:92024
(Quinto, Eric Todd) *see* Tomography, impedance imaging, and integral geometry, 95c:00018
(Steele, J. H.) *see* Patch dynamics, 95f:92024

Items listed otherwise than by author

- Artificial neural networks in engineering ★ Artificial neural networks in engineering. 95i:93004
Direct and inverse problems in chemical kinetics ★ Прямые и обратные задачи в химической кинетике. (Russian) [Direct and inverse problems in chemical kinetics] 95c:00010
Lecture Notes in Biomathematics ★ Patch dynamics. 95f:92024
Patch dynamics ★ Patch dynamics. 95f:92024
Seminar:
Mathematics of Tomography, Impedance Imaging, and Integral Geometry ★ Tomography, impedance imaging, and integral geometry. 95c:00018
South Hadley, MA ★ Tomography, impedance imaging, and integral geometry. 95c:00018
Special Issue:
Artificial neural networks in engineering ★ Artificial neural networks in engineering. 95i:93004
Tomography, impedance imaging, and integral geometry ★ Tomography, impedance imaging, and integral geometry. 95c:00018

92-08 Computational methods

Items with secondary classifications in 92-08

- Chiu, Chichia (with Hoppensteadt, Frank C.) A particle method for population waves. (English summary) 95a:92013
Holst, Michael (with Saied, Faisal) Multigrid and domain decomposition methods for electrostatics problems. (English summary) (see 95i:65008)
Hoppensteadt, Frank C. *see* Chiu, Chichia, 95a:92013
Saied, Faisal *see* Holst, Michael, (95i:65008)

92Bxx Mathematical biology in general

92B05 General biology and biomathematics

- Ackleh, Azmy S. (with Fitzpatrick, Ben G.; Hallam, Thomas G.) Approximation and parameter estimation problems for algal aggregation models. (English summary) 95c:92001
Chapman, Michael J. (with Godfrey, Keith R.; Vajda, Sándor) Indistinguishability for a class of nonlinear compartmental models. (English summary) 95c:92002
DeVault, R. (with Grove, E. A.; Ladas, G.; Levins, R.; Puccia, C.) Oscillation and stability in models of a perennial grass. (see 95f:00022)
El Jai, Abdelhak (with Kassara, K.) Spreadable distributed systems. (English summary) 95c:92001
Ermakov, V. V. Delay in biomedical mathematical models. Parameter identification and properties of a glucose homeostasis model. (Russian. English, German and Russian summaries) 95f:92001
Fitzpatrick, Ben G. *see* Ackleh, Azmy S.; et al., 95c:92001
Fuchs, P. M. General mathematical concept of compensation in sports science with quantitative analysis in the case of sprinting performance. (English summary) 95f:92002
Glass, L. (with Mackey, Michael C.) ★ От часов к хаосу. (Russian. Russian summary) [From clocks to chaos] 95k:92002
Godfrey, Keith R. *see* Chapman, Michael J.; et al., 95c:92002
Grove, E. A. *see* DeVault, R.; et al., (95f:00022)
Hallam, Thomas G. *see* Ackleh, Azmy S.; et al., 95c:92001
Kassara, K. *see* El Jai, Abdelhak, 95c:92001
Kazanovich, Ya. B. *see* Smetanich, Ya. S.; et al., 95m:92003
Kornilov, V. V. *see* Smetanich, Ya. S.; et al., 95m:92003
Ladas, G. *see* DeVault, R.; et al., (95f:00022)
Leguizamón, C. A. (with Zaretzky, A. N.) Semidistributivity in the Heyting arrow lattice for relational biologic processes. (English summary) 95a:92001

— *see also* Zaretzky, A. N., 95j:92002

- Levins, R. *see* DeVault, R.; et al., (95f:00022)
Lu, Chunging Global bifurcation of steady state solutions for a biochemical system. (Chinese. English summary) 95k:92002
Mackey, Michael C. *see* Glass, L., 95k:92002
Maergolts, L. S. A method for identification of relaxation indices of wave-type homeostasis. (English summary) 95f:92001
Moiseev, N. N. Biota as a controller and the sustainability problem. (Russian. Russian summary) 95f:92001
Moran, Gadi The r -majority vote action on 0-1 sequences. (English summary) 95m:92001
— Parametrization for stationary patterns of the r -majority operators on 0-1 sequences. (English summary) 95m:92002
Pfister, Beate ★ Ein eindimensionales Modell zum Schwarmverhalten der Myxobakterien unter besonderer Berücksichtigung der Randzonenentwicklung. (German. German summary) [A one-dimensional model on the swarming behavior of Myxobacteria, with special consideration of the development of the boundary zone] 95f:92002
Puccia, C. *see* DeVault, R.; et al., (95f:00022)
(Sel'kov, E. E.) *see* Glass, L., 95k:92002
(Sel'kova, R. I.) *see* Glass, L., 95k:92002
Shen, Samuel S. A simple model of reproductive mass spreading. (English summary) 95j:92001
Smetanich, Ya. S. (with Kazanovich, Ya. B.; Kornilov, V. V.) A combinatorial approach to the problem of self-assembly. (English summary) 95m:92003
Vajda, Sándor *see* Chapman, Michael J.; et al., 95c:92002
Warnow, Tandy J. Tree compatibility and inferring evolutionary history. (English summary) 95c:92002
Zaretzky, A. N. (with Leguizamón, C. A.) Correspondences between the Heyting arrow lattices of a distributive lattice and its sublattices in relational biologic systems. (English summary) 95j:92002
— *see also* Leguizamón, C. A., 95a:92001

Items with secondary classifications in 92B05

- Albano, Ezequiel V. Critical behaviour of a forest fire model with immune trees. (English summary) 95i:82075
Arbogast, Todd (with Obeyesekere, Mandri; Wheeler, Mary F.) Numerical methods for the simulation of flow in root-soil systems. (English summary) 95a:65175
Bartoszyński, R. *see* Sen, Pali
Chiu, Chichia (with Hoppensteadt, Frank C.) A particle method for population waves. (English summary) 95a:92013
Claude, Daniel Shift of a limit-cycle in biology and error-equation. (English summary) 95g:92006
Fabrizio, Mauro Complex systems: dissipation and reversibility. (English summary) 95g:80005
Hastings, Harold M. (with Sugihara, George) ★ Fractals. (English summary) 95h:28011
Henriquez, C. S. *see* Hooke, N.; et al., 95c:92005
Hooke, N. (with Henriquez, C. S.; Lanzkron, P.; Rose, Donald J.) Linear algebraic transformations of the bidomain equations: implications for numerical methods. (English summary) 95c:92005
Hoppensteadt, Frank C. *see* Chiu, Chichia, 95a:92013
Kannan, Sampath K. (with Warnow, Tandy J.) Inferring evolutionary history from DNA sequences. (English summary) 95c:92008
Kuwamura, Masataka Very slow dynamics for some reaction-diffusion systems. (English summary) 95f:35114
Lanzkron, P. *see* Hooke, N.; et al., 95c:92005
Leguizamón, C. A. (with Zaretzky, A. N.) About the correspondences between dual Heyting arrow lattices of a distributive lattice and its sublattices for relational biologic systems. (English summary) 95m:06029
(Levin, Simon A.) *see* Patch dynamics, 95f:92024
Lions, Jacques-Louis Quelques remarques sur la contrôlabilité en liaison avec des questions d'environnement. [Some remarks on controllability and the environment] 95c:93011
Obeyesekere, Mandri *see* Arbogast, Todd; et al., 95a:65175
Othmer, Hans G. (with Watanabe, Masaji) Resonance in excitable systems under step-function forcing. I. Harmonic solutions. (English summary) 95j:34061
(Powell, T. M.) *see* Patch dynamics, 95f:92024
Rabbani, M. Ghulam (with Warner, James W.) Shortcomings of existing finite element formulations for subsurface water pollution modeling and its rectification: one-dimensional case. (English summary) 95b:65120
— Direct-formulation finite element (DFFE) method for groundwater flow modeling: two-dimensional case. (English summary) 95b:65121
Rose, Donald J. *see* Hooke, N.; et al., 95c:92005
Rowe, Glenn ★ Theoretical models in biology. (English summary) 95d:92001
Schapiro, B. An approach to the physics of complexity. (English summary) 95f:58073
Sen, Pali (with Bartoszyński, R.) A technique of finding the variance of a stochastic integral equation. (English summary) 95f:92001
Sherratt, Jonathan A. On the evolution of periodic plane waves in reaction-diffusion systems of λ - ω type. (English summary) 95c:35104
(Steele, J. H.) *see* Patch dynamics, 95f:92024
Sugihara, George *see* Hastings, Harold M., 95h:28011
Tallis, G. M. Compartmental models and competing risk. (English summary) 95b:92004
Turova, T. S. Limit behavior of an infinite system of coupled oscillators. (Russian. Russian summary) 95f:82028
Warner, James W. *see* Rabbani, M. Ghulam, 95b:65120
Warnow, Tandy J. *see* Kannan, Sampath K., 95c:92008
Watanabe, Masaji *see* Othmer, Hans G., 95j:34061
Wheeler, Mary F. *see* Arbogast, Todd; et al., 95a:65175
Zaretzky, A. N. *see* Leguizamón, C. A., 95m:06029

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- Lecture Notes in Biomathematics ★ Patch dynamics. 95f:92024
Patch dynamics ★ Patch dynamics. 95f:92024

92B10 Taxonomy, statistics

- Gyllenberg, Mats (with Koski, Timo; Reilink, Edwin; Verlaan, Martin) Nonuniqueness in probabilistic numerical identification of bacteria. (English summary) 95a:92002
- Koski, Timo see Gyllenberg, Mats; et al., 95a:92002
- Reilink, Edwin see Gyllenberg, Mats; et al., 95a:92002
- Verlaan, Martin see Gyllenberg, Mats; et al., 95a:92002

Items with secondary classifications in 92B10

- Erdős, Péter L. see Székely, László A.; et al., 95c:05050
- McMorris, F. R. (with Warnow, Tandy J.; Wimer, Thomas) Triangulating vertex-colored graphs. (English summary) 95c:05118
- Steel, M. A. (with Warnow, Tandy J.) Kaikoura tree theorems: computing the maximum agreement subtree. (English summary) 95d:68066
- see also Székely, László A.; et al., 95c:05050
- Székely, László A. (with Erdős, Péter L.; Steel, M. A.) The combinatorics of reconstructing evolutionary trees. (English summary) 95c:05050
- Warnow, Tandy J. Tree compatibility and inferring evolutionary history. (English summary) 95c:92002
- see also McMorris, F. R.; et al., 95c:05118 and Steel, M. A., 95d:68066
- Wimer, Thomas see McMorris, F. R.; et al., 95c:05118
- Wu, Shi Quan² Maximum trees of subsets. (English summary) 95j:05014

92B20 Neural networks [see also 68T05, 82C32, 94Cxx]

- Amaldi, Edoardo (with Mayoraz, E.; de Werra, D.) A review of combinatorial problems arising in feedforward neural network design. (English summary) 95b:92001
- Ashwin, Peter (with Stork, Peter) Permissible symmetries of coupled cell networks. (English summary) 95j:92003
- Bouzerdoum, Abdesselam Convergence of symmetric shunting competitive neural networks. (English summary) 95g:92001
- Bovier, Anton (with Gayraud, Véronique) Lower bounds on the memory capacity of the dilute Hopfield model. (English summary) 95a:92003
- Burshtein, David Nondirect convergence radius and number of iterations of the Hopfield associative memory. (English summary) 95h:92001
- (Caianiello, Eduardo R.) see Cull, Paul, 95m:92004
- Cull, Paul Caianiello and classical neural nets. (English summary) 95m:92004
- Dorffner, Georg Unified framework for MLPs and RBFNs: introducing conic section function networks. (English summary)
- Ellacott, S. W. Aspects of the numerical analysis of neural networks. (English summary) 95h:92002
- Techniques for the mathematical analysis of neural networks. (English summary) 95f:92002
- Faure, Robert¹ Neural networks and mathematical distributions theory: periodical and almost periodical Dirac firings. (English summary) 95d:92002
- Fausett, Donald W. see Köksal, Semen; et al., 95f:92003
- Fausett, Laurene V. see Köksal, Semen; et al., 95f:92003
- Feng, Jian Feng (with Qian, Min Ping) Annealing in the neural network. II. Inhomogeneous case. (English and Chinese summaries) 95c:92003
- Fernández, A. A. see Meade, A. J., Jr., 95h:92005
- Fricker, Christine (with Robert, Philippe; Saada, Ellen; Tibi, Danielle) Analysis of a network model. (English summary) 95a:92003
- Gayraud, Véronique see Bovier, Anton, 95a:92003
- Gopalsamy, K. (with He, Xue Zhong) Stability in asymmetric Hopfield nets with transmission delays. (English summary) 95g:92002
- Grauel, Adolf ★ Neuronale Netze. (German. German summary) [Neural networks] 95c:92003
- Gupta, Madan M. see Jin, Liang; et al.
- He, Xue Zhong see Gopalsamy, K., 95g:92002
- Jin, Liang (with Nikiforuk, Peter N.; Gupta, Madan M.) On the principles of dynamic neural units. I. Mechanism, dynamics, and stability. (English summary)
- Kailath, Thomas see Siu, Kai-Yeung; et al., 95h:92006
- Köksal, Semen (with Fausett, Laurene V.; Fausett, Donald W.) Using vector Lyapunov functions for stability analysis of neural networks. (English summary) 95f:92003
- Kreinovich, V. Ya. (with Sirisaengtaksin, Ongard) 3-layer neural networks are universal approximators for functionals and for control strategies. (English summary) 95a:92004
- Lenze, Burkhard On local and global sigma-pi neural networks. A common link. (English summary) 95h:92003
- Loccufer, M. see Noldus, E., 95c:92004
- Loukianova, Daria Capacité de mémoire dans le modèle de Hopfield. (English and French summaries) [Memory capacity in the Hopfield model] 95a:92005
- Magnussen, Holger (with Nossek, Josef A.) A geometric approach to properties of the discrete-time cellular neural network. (English summary) 95h:92004
- Mayoraz, E. see Amaldi, Edoardo; et al., 95h:92001
- Meade, A. J., Jr. (with Fernández, A. A.) Solution of nonlinear ordinary differential equations by feedforward neural networks. (English summary) 95h:92005
- van der Meulen, Edward C. see Turova, T. S.; et al., 95d:92004
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- Nakamura, Yoshimasa Neurodynamics and nonlinear integrable systems of Lax type. (English summary) 95j:92004
- Nikiforuk, Peter N. see Jin, Liang; et al.
- Noldus, E. (with Loccufer, M.) An application of Liapunov's method for the analysis of neural networks. (English summary) 95c:92004
- Nossek, Josef A. see Magnussen, Holger, 95h:92004
- Pinsky, Paul F. Synchrony and clustering in an excitatory neural network model with intrinsic relaxation kinetics. (English summary) 95h:92003
- Qian, Min Ping see Feng, Jian Feng, 95c:92003
- Robert, Philippe see Fricker, Christine; et al., 95a:92003
- Roychowdhury, Vwani P. see Siu, Kai-Yeung; et al., 95h:92006
- Saada, Ellen see Fricker, Christine; et al., 95a:92003
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- Siu, Kai-Yeung (with Roychowdhury, Vwani P.; Kailath, Thomas) Rational approximation techniques for analysis of neural networks. (English summary) 95h:92006
- Stork, Peter see Ashwin, Peter, 95j:92003
- Tibi, Danielle see Fricker, Christine; et al., 95d:92003
- Turova, T. S. (with Mommaerts, Walter; van der Meulen, Edward C.) Synchronization of firing times in a stochastic neural network model with excitatory connections. (English summary) 95d:92004
- van Velzen, G. A. Instabilities in Kohonen's self-organizing feature map. (English summary) 95b:92002
- de Werra, D. see Amaldi, Edoardo; et al., 95b:92001
- Items with secondary classifications in 92B20
- Albertini, Francesca (with Sontag, Eduardo D.) State observability in recurrent neural networks. (English summary) 95a:93013
- Anthony, Martin (with Biggs, Norman L.) Computational learning theory for artificial neural networks. (see 95g:68098)
- Bennett, Kristin P. (with Mangasarian, Olvi L.) Bilinear separation of two sets in n -space. (English summary) 95f:90046
- Bethge, Anthea (with Kühn, Reimer; Horner, Heinz) Storage capacity of a two-layer perceptron with fixed preprocessing in the first layer. (English summary)
- Biehl, Michael (with Schwarze, Holm) Learning by on-line gradient descent. (English summary)
- Biggs, Norman L. see Anthony, Martin, (95g:68098)
- Botelho, Fernanda (with Garzon, Max) Shadowing on fractals. (English summary) 95c:58094
- Bovier, Anton (with Gayraud, Véronique) Rigorous results on the Hopfield model of neural networks. (English summary) 95g:82064
- Bressloff, Paul C. A Green's function approach to analysing the effects of random synaptic background activity in a model neural network. (English summary) 95c:82033
- Brunel, Nicolas Storage capacity of neural networks: effect of the fluctuations of the number of active neurons per memory. (English summary) 95f:82027
- Bryce, Włodzimierz (with Smoleński, W.) A sensitivity estimate for Boolean functions. (English summary) 95f:94043
- Buckley, James J. (with Hayashi, Yoichi) Fuzzy neural networks: a survey. (English summary) 95c:68177
- Cessac, B. (with Doyon, B.; Quoy, M.; Samuelides, M.) Mean-field equations, bifurcation map and route to chaos in discrete time neural networks. (English summary) 95j:82037
- Chen, Fu Chuang (with Liu, Chen Chung) Adaptively controlling nonlinear continuous-time systems using multilayer neural networks. (English summary) 95h:93100
- Chui, Charles K. (with Li, Xin²; Bhaskar, H. N.) Neural networks for localized approximation. (English summary) 95a:65027
- Coolen, A. C. C. see Jonker, H. J. J.; et al., 95a:82086
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- Parrott, M. E. see Fitzgibbon, W. E., 95a:34093 and 95m:35088
- (Price, W. G.) see Mickens, Ronald E.
- (Twizell, E. H.) see Mickens, Ronald E.
- (Wang, Yigong) see Mickens, Ronald E.
- You, Yun Cheng see Fitzgibbon, W. E.; et al., 95m:35088

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- Bass, Ludvik see McNabb, Alex, 95a:92010
- Berezovskii, A. A. see Mitropol'skii, Yu. A.; et al., 95b:92006
- Busenberg, Stavros (with Tang, Betty) Mathematical models of the early embryonic cell cycle: the role of MPF activation and cyclin degradation. (English summary) 95j:92006
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- Clegg, J. see Arthurs, A. M., 95b:92005
- Cooke, Kenneth L. (with Turi, Janos) Stability, instability in delay equations modeling human respiration. (English summary) 95f:92005
- Deng, Bo A mathematical model that mimics the bursting oscillations in pancreatic β -cells. (English summary) 95c:92006
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- Kudaeva, F. Kh. see Mitropol'skii, Yu. A.; et al., 95b:92006
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- Kleiber, Michal see Kowalczyk, Piotr, 95c:73068
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- Zhao, Dong Fang The velocity competition model and six fundamental formulas. (Chinese. English and Chinese summaries)

92C35 Physiological flow [see also 76Z05]

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- Ge, Zhao Qiang (with Li, Li²) A mathematical model of the blood flow in lung microcirculation—the case of tissue fluid motion. (Chinese. English and Chinese summaries)
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92C40 Biochemistry, molecular biology

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- Busenberg, Stavros (with Tang, Betty) Mathematical models of the early embryonic cell cycle: the role of MPF activation and cyclin degradation. (English summary) 95j:92006
- Cheng, Zhong Yuan (with Leng, Zhong Jian) Systematic analysis of a class of biochemical reaction models. (Chinese. English summary) 95k:34041
- Chiu, S. N. see Cowan, Richard, 95d:92010
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- Colli, Pierluigi Global existence results for a mathematical model of cell morphogenesis in calcium-regulated strain fields. (English summary) 95k:35209
- Cowan, Richard (with Chiu, S. N.) A stochastic model of fragment formation when DNA replicates. (English summary) 95d:92010
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- Yedidia, Jonathan S. Quenched disorder: understanding glasses using a variational principle and the replica method. (see 95a:00008)
- Yu, Hai Jun (with Xiao, Yi) Temperature effects on vibron solitons. (English summary) 95h:81113

92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [see also 80A30]

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- Erneux, Thomas see Holden, Lisa, 95a:34058
- Holden, Lisa (with Erneux, Thomas) Slow passage through a Hopf bifurcation: from oscillatory to steady state solutions. (English summary) 95a:34058

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- Duda, Zdzisław Evaluation of some optimal chemotherapy protocols by using a gradient method. (English summary)
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- Hung, W. T. (with Shannon, A. G.; Thornton, B. S.) The use of a second-order recurrence relation in the diagnosis of breast cancer. 95d:92006
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- Rachev, Svetozar T. (with Wu, Chufang; Yakovlev, A. Yu.) A bivariate limiting distribution of tumor latency time. (English summary)
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- Baumeister, J. (with Stockert, E. R. v.) On an integral equation related to an inverse problem in magnetocardiography. (English and Portuguese summaries) 95h:78007

- Biswas, Suddhendu (with Thomas, Mariamma) On a martingale based approach for the estimation of the parameters affecting the growth of a tumour. (English summary) 95m:62238
- de Boer, Rob J. see Merrill, Stephen J.; et al., 95a:92017
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- Hoschek, Josef see Giering, Oswald, 95k:51001
- Jouve, F. ★ Modélisation de l'œil en élasticité non linéaire. (French) [Modeling the eye in nonlinear elasticity] 95f:92004
- Lanzkron, P. see Hooke, N.; et al., 95e:92005
- Medina, Richard L. see Albanese, Richard A.; et al.
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- Stockert, E. R. v. see Baumeister, J., 95h:78007
- Tan, W. Y. On the HIV incubation distribution under non-Markovian models. (English summary)
- Thomas, Mariamma see Biswas, Suddhendu, 95m:62238
- Ueno, Sueo (with Wang, A. P.) Invariant imbedding and order-of-scattering theory in radiation field. (English summary) 95e:82038
- Usmanov, R. N. ★ Алгоритмы статистического оценивания параметров математических моделей заболеваний. (Russian. English and Russian summaries) [Algorithms for the statistical estimation of the parameters of mathematical models of diseases] 95b:92007
- Wang, A. P. see Ueno, Sueo, 95e:82038
- (Waring, G.) see Jouve, F., 95f:92004
- Wei, L. J. see Ying, Zhiliang, 95k:62071
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- Ying, Zhiliang (with Wei, L. J.) The Kaplan-Meier estimate for dependent failure time observations. (English summary) 95k:62071

92C55 Tomography [see also 44A12, 65R10]

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- Goutte, R. see Peyrin, F.; et al.
- Grünbaum, F. Alberto (with Patch, S. K.) The use of Grassmann identities for inversion of a general model in diffuse tomography. 95a:92011
- Monk, Peter see Colton, David
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- Patch, S. K. A note on consistency conditions in three-dimensional diffuse tomography. (English summary) 95g:92007
- see also Grünbaum, F. Alberto, 95a:92011
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- Bauschke, H. H. A norm convergence result on random products of relaxed projections in Hilbert space. (English summary) 95k:47085
- Cheung, W. K. (with Markoe, Andrew) Image reconstruction and dense subspaces in the range of the Radon transform. (English summary) 95i:44004
- Clack, R. see Defrise, M.; et al., 95m:44004
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- Correa, Arlene (with Cruz, Rodney; Salzberg, Pablo M.) On a spatial limited angle model for X-ray computerized tomography. (English summary) 95i:44005
- Cruz, Rodney see Correa, Arlene; et al., 95i:44005
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- Dhariyal, Ishwari D. see Srivastava, Tanuja; et al., 95i:44007
- Dobson, David C. (with Santosa, Fadil) An image-enhancement technique for electrical impedance tomography. (English summary) 95b:78024
- (with Santosa, Fadil) Resolution and stability analysis of an inverse problem in electrical impedance tomography: dependence on the input current patterns. (English summary) 95g:35212
- Figueras, Raúl (with Salzberg, Pablo M.) Incidence pattern of a pencil of lines in the N-dimensional torus. (English summary) 95i:51022
- Gutman, Semion (with Klivanov, M. V.) Iterative method for multi-dimensional inverse scattering problems at fixed frequencies. (English summary) 95b:65153
- Hausding, R. On two parameter identification problems arising from a special form of computerized tomography. (English summary) 95i:65095
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- Klivanov, M. V. see Gutman, Semion, 95b:65153
- Kovtanyuk, A. E. see Anikonov, D. S.; et al., 95e:78009
- Kuchment, Peter On inversion and range characterization of one transform arising in emission tomography. (English summary) 95k:44004
- Kuruc, Alvin Probability measure estimation using "weak" loss functions in positron emission tomography. (English summary) 95i:62036
- L'vin, S. Ya. Data correction and restoration in emission tomography. (English summary) 95f:65224
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- Rathore, R. K. S. Total error in the discrete convolution backprojection algorithm in computerized tomography. (English summary) 95j:65025
- see also Srivastava, Tanuja; et al., 95i:44007
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- Santosa, Fadil see Dobson, David C., 95b:78024 and 95g:35212
- Sharafutdinov, V. A. Uniqueness theorems for the exponential X-ray transform. (English summary) 95a:44005
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- Srivastava, Tanuja (with Rathore, R. K. S.; Dhariyal, Ishwari D.) Direct estimates of the statistical error for convolution backprojection algorithm in computerized tomography. (English summary) 95i:44007
- Sysoev, S. E. Reconstruction of a function of two variables from data of its exponential ray transformation in the case of incomplete angular range. (Russian)
- Townsend, Douglas W. see Defrise, M.; et al., 95m:44004
- Zaslavsky, Alexander I. see Ramm, Alexander G., 95b:44007

92C60 Medical epidemiology

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92Dxx Genetics and population dynamics

92D10 Genetics [For genetic algebras, see 17D92.]

- Akin, Ethan (with Szucs, Joseph M.) Approaches to the Hardy-Weinberg manifold. (English summary) 95e:92007
- Dockery, Jack D. (with Lui, Roger) Existence and stability of traveling wave solutions for a population genetic model via singular perturbations. (English summary) 95g:92008
- Gradi, Hans Long-time behavior of continuous time models in genetic algebras. (English summary) 95c:92007
- Jain, J. P. see Prabhakaran, V. T.
- Lander, Eric S. Mapping heredity: using probabilistic models and algorithms to map genes and genomes.
- Länger, Helmut An elementary proof of the fundamental theorem of natural selection in the case of two alleles. 95b:92010
- Lin, Hui T'ing A discrete one-locus two-allele density dependent selection model. (English summary) 95a:92012
- Lui, Roger see Dockery, Jack D., 95g:92008
- Prabhakaran, V. T. (with Jain, J. P.) ★ Statistical techniques for studying genotype-environment interactions. (English summary)
- (Swaminathan, M. S.) see Prabhakaran, V. T.
- Szucs, Joseph M. see Akin, Ethan, 95e:92007

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- Athreya, K. B. Rates of decay for the survival probability of a mutant gene. II. The multitype case. (English summary) 95a:60113
- Correa, Ivan (with Hentzel, Irvin Roy; Peres, Luiz Antonio) Minimal identities of Bernstein algebras. (English summary) 95d:17036
- Cortés, Teresa Modular Bernstein algebras. (English summary) 95d:17038
- Costa, Roberto C. F. (with Guzzo, Henrique, Jr.) Indecomposable baric algebras. II. (English summary) 95e:17030
- Goffinet, Bruno see Loisel, Patrice; et al.
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- Guzzo, Henrique, Jr. see Costa, Roberto C. F., 95e:17030
- Hentzel, Irvin Roy see Correa, Ivan; et al., 95d:17036
- Hines, W. G. S. ESS modelling of diploid populations. I. Anatomy of one-locus allelic frequency simplices. (English summary) 95g:92009a
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- Joyce, Paul Likelihood ratios for the infinite alleles model. (English summary) 95k:62051
- (Karpov, A. P.) see Lyubich, Yu. I., 95f:92018
- Kemp, Adrienne W. Comments on the Luria-Delbrück distribution. (English summary) 95g:60023

- Loisel, Patrice (with Goffinet, Bruno; Monod, Hervé; Montes De Oca, Gustavo) Detecting a major gene in an F_2 population. (English and French summaries) 95d:92078
- Luque, Bartolo see Solé, Ricard V., 95d:92078
- Lyubich, Yu. I. ★ Mathematical structures in population genetics. (English summary) 95d:92018
- Martínez López, Consuelo see González, Santos; et al., 95d:17042
- Monod, Hervé see Loisel, Patrice; et al.
- Montes De Oca, Gustavo see Loisel, Patrice; et al.
- Peres, Luiz Antonio see Correa, Ivan; et al., 95d:17036
- Solé, Ricard V. (with Luque, Bartolo) Phase transitions and antichaos in generalized Kauffman networks. (English summary) 95d:92078
- Vicente, P. see González, Santos; et al., 95d:17042
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92D15 Problems related to evolution

- Agarwala, Richa (with Fernández-Baca, David) A polynomial-time algorithm for the perfect phylogeny problem when the number of character states is fixed. (English summary) 95m:68008
- (with Fernández-Baca, David) A polynomial-time algorithm for the perfect phylogeny problem when the number of character states is fixed. (English summary) 95m:92010
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- (with Matsumoto, Makoto) Volterra-Hamilton systems in ecology: the two-dimensional classification theory. (English summary) 95k:92009
- Bradbury, R. see Antonelli, Peter L.; et al., 95c:92008
- Charlesworth, Brian ★ Evolution in age-structured populations. (English summary) 95f:92006
- Farach, Martin (with Thorup, Mikkel) Fast comparison of evolutionary trees. (English summary) 95c:92009
- (with Kannan, Sampath K.; Warnow, Tandy J.) A robust model for finding optimal evolutionary trees. (English summary) 95h:92011
- Fernández-Baca, David see Agarwala, Richa, 95m:92010 and 95m:68008
- Hines, W. G. S. ESS modelling of diploid populations. I. Anatomy of one-locus allelic frequency simplices. (English summary) 95g:92009a
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- Kannan, Sampath K. see Farach, Martin; et al., 95h:92011
- Křivan, Vlastimil see Antonelli, Peter L.; et al., 95c:92008
- Langer, Helmut On the calculation of evolutionarily stable strategies. (English summary) 95h:92012
- Matsumoto, Makoto see Antonelli, Peter L., 95k:92009
- Shimada, H. see Antonelli, Peter L.; et al., 95c:92008
- Thorup, Mikkel see Farach, Martin, 95c:92009
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- Bonhoeffer, Sebastian see Nowak, Martin A.; et al., 95a:90213
- Boylan, Richard T. Evolutionary equilibria resistant to mutation. (English summary) 95c:90129
- Broom, M. (with Cannings, C.; Vickers, G. T.) Sequential methods for generating patterns of ESS's. (English summary) 95d:90102
- Cannings, C. see Broom, M.; et al., 95d:90102
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- Kannan, Sampath K. (with Warnow, Tandy J.) Inferring evolutionary history from DNA sequences. (English summary) 95c:92008
- Mangel, Marc Barrier transitions driven by fluctuations, with applications to ecology and evolution. (English summary) 95b:92019
- May, Robert M. Necessity and chance: deterministic chaos in ecology and evolution. 95m:92021
- see also Nowak, Martin A.; et al., 95a:90213
- Moiseev, N. N. Biota as a controller and the sustainability problem. (Russian. Russian summary) 95f:92001
- Navidi, W. C. Bootstrapping a method of phylogenetic inference. (English summary) 95a:90213
- Nowak, Martin A. (with Bonhoeffer, Sebastian; May, Robert M.) More spatial games. (English summary) 95a:90213
- Phillipson, Paul E. (with Schuster, Peter Karl) Map dynamics of autocatalytic networks and the replicator equations. (English summary) 95c:92021
- Schuster, Peter Karl see Phillipson, Paul E., 95c:92021
- Skyrms, Brian Darwin meets *The logic of decision*: correlation in evolutionary game theory. (English summary) 95a:90213
- Steel, M. A. (with Warnow, Tandy J.) Kaikoura tree theorems: computing the maximum agreement subtree. (English summary) 95d:68066
- Vickers, G. T. see Broom, M.; et al., 95d:90102
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- Xu, Xiangsheng A free boundary problem arising from reproductive toxic mass spreading. **95m:92028**
- Zheng, Si Ning A reaction-diffusion system of a prey with three genotypes and a predator. (English summary) **95g:92023**

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Patch dynamics ★ Patch dynamics. **95f:92024**

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- Antonelli, Peter L. (with Bradbury, R.; Krivan, Vlastimil; Shimada, H.) A dynamical theory of heterochrony: time-sequencing changes in ecology, development and evolution. (English summary) **95c:92008**
- (with Matsumoto, Makoto) Volterra-Hamilton systems in ecology: the two-dimensional classification theory. (English summary) **95k:92009**
- Arđila de la Peña, Víctor Manuel Positive solutions of a model of species competition. (Spanish. English summary) **95i:92004**
- Bradbury, R. see Antonelli, Peter L.; et al., **95c:92008**
- Casal, A. (with Eilbeck, J. C.; López-Gómez, Julián) Existence and uniqueness of coexistence states for a predator-prey model with diffusion. (English summary) **95f:92009**
- Cavani, M. (with Farkas, Miklós) Bifurcations in a predator-prey model with memory and diffusion. I. Andronov-Hopf bifurcation. **95f:92010**
- (with Farkas, Miklós) Bifurcations in a predator-prey model with memory and diffusion. II. Turing bifurcation. **95f:92011**
- Chen, Ju Fang see Zeng, Guang Zhao; et al., **95j:92018**
- Chen, Lan Sun see Zeng, Guang Zhao; et al., **95j:92018**
- Chu, Hsin (with Li, Qiang) Boundedness and persistence of a delayed predator-prey model with almost periodic carrying capacity. (English summary) **95f:92012**
- Dancer, E. N. (with López-Gómez, Julián; Ortega, Rafael) On the spectrum of some linear noncooperative elliptic systems with radial symmetry. (English summary) **95h:35055**
- DeVault, R. (with Grove, E. A.; Ladas, G.; Levins, R.; Puccia, C.) Oscillation and stability in models of a perennial grass. (see **95f:00022**)
- Eilbeck, J. C. (with Furter, Jacques E.; López-Gómez, Julián) Coexistence in the competition model with diffusion. (English summary) **95c:35072**
- see also Casal, A.; et al., **95f:92009**
- Farkas, Miklós see Cavani, M., **95f:92010** and **95f:92011**
- Federer, Walter T. ★ Statistical design and analysis for intercropping experiments. Vol. I. (English summary) **95e:62079**
- Furter, Jacques E. see Eilbeck, J. C.; et al., **95c:35072**
- Grove, E. A. see DeVault, R.; et al., **(95f:00022)**
- Haurie, Alain (with Krawczyk, J. B.; Roche, Michel) Monitoring cooperative equilibria in a stochastic differential game. (English summary) **95b:90179**
- Hauser, Rudolf see Meier, Christoph; et al., **95g:92019**
- He, Wan Sheng see Li, Wan Tong, **95g:35082**
- Hou, Gan Sheng The bounded extermination and stability of mutual interference system of four-dimensional species. (Chinese. English and Chinese summaries)
- Ikegami, Takashi (with Yoshikawa, Eken S.) Chaos and evolution of cooperative behavior in a host-parasite game. (English summary) (see **95d:58002**)
- Kim, Yong-Gwan Evolutionarily stable strategies in the repeated prisoner's dilemma. (English summary) **95i:90124**
- Kiss, Krisztina On the Volterra-Ljapunov stability. **95j:34076**
- Kolesov, Yu. S. A special relaxation cycle of a system of differential-difference equations. (Russian. Russian summary) **95c:34126**
- Korman, Philip Dynamics of the Lotka-Volterra systems with diffusion. (English summary) **95f:35113**
- Krawczyk, J. B. see Haurie, Alain; et al., **95b:90179**
- Křivan, Vlastimil see Antonelli, Peter L.; et al., **95c:92008**
- Kumar, Ravinder¹ (with Sinha, A. K.) On two species competitive systems with one predator. (English summary) **95h:92019**
- Ladas, G. see DeVault, R.; et al., **(95f:00022)**
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- Li, Qiang see Chu, Hsin, **95f:92012**
- Li, Wan Tong (with He, Wan Sheng) Oscillation of a delay-logistic ecological model with diffusion. (Chinese. English and Chinese summaries) **95g:35082**
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- Manoranjan, Valipuram S. see Wollkind, David J.; et al., **95d:35090**
- Matsumoto, Makoto see Antonelli, Peter L., **95c:92009**
- May, Robert M. Necessity and chance: deterministic chaos in ecology and evolution. **95m:92021**
- Meier, Christoph (with Senn, Walter; Hauser, Rudolf; Zimmermann, Manfred) Strange limits of stability in host-parasitoid systems. (English summary) **95f:92019**
- Ortega, Rafael see Dancer, E. N.; et al., **95h:35055** and Amine, Zitan, **95h:92015**
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- Prajneshu A stochastic Lotka-Volterra prey-predator model with switching effect. (English summary) **95k:92016**
- Puccia, C. see DeVault, R.; et al., **(95f:00022)**

- Quan, Hong Shun (with Li, Wan Tong) Periodic solution of perturbed nonautonomous predator-prey system and stability of its periodic solutions. (English summary) **95h:34064**
- Roche, Michel see Haurie, Alain; et al., **95b:90179**
- Ruan, Shi Gui The effect of delays on stability and persistence in plankton models. **95m:92022**
- Senn, Walter see Meier, Christoph; et al., **95f:92019**
- Shimada, H. see Antonelli, Peter L.; et al., **95c:92008**
- Sinha, A. K. see Kumar, Ravinder¹, **95h:92019**
- Skyrms, Brian Chaos in game dynamics. (English summary) **95d:90107**
- Tineo, Antonio Asymptotic behavior of solutions of a periodic reaction-diffusion system of a competitor-competitor-mutualist model. **95f:92021**
- Wollkind, David J. (with Manoranjan, Valipuram S.; Zhang, Limin) Weakly nonlinear stability analyses of prototype reaction-diffusion model equations. (English summary) **95d:35090**
- Yoshikawa, Eken S. see Ikegami, Takashi, **(95d:58002)**
- Zeeman, M. L. Extinction in competitive Lotka-Volterra systems. (English summary) **95c:92019**
- Zeng, Guang Zhao (with Chen, Lan Sun; Chen, Ju Fang) Persistence and periodic orbits for two-species nonautonomous diffusion Lotka-Volterra models. (English summary) **95j:92018**
- Zhang, Limin see Wollkind, David J.; et al., **95d:35090**
- Zhao, Zhen Hai Qualitative analysis of predator-prey systems with Holling's type II functional response. (Chinese. English and Chinese summaries) **95j:92019**
- Zimmermann, Manfred see Meier, Christoph; et al., **95f:92019**

92D50 Animal behavior

- Antonelli, Peter L. (with Zastawniak, Tomasz J.) Density-dependent host/parasite systems of Rothschild type and Finslerian diffusion. (English summary) **95h:92026**
- McNamara, J. M. see Merad, S.
- Merad, S. (with McNamara, J. M.) Optimal foraging of a reproducing animal as a discounted reward problem. (English summary)
- Zastawniak, Tomasz J. see Antonelli, Peter L., **95h:92026**

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- Jones, Mark Stephen (with Le Baron, L.; Pedley, T. J.) Biflagellate gyrotaxis in a shear flow. (English summary) **95i:76116**
- Le Baron, L. see Jones, Mark Stephen; et al., **95i:76116**
- Lindström, Torsten Qualitative analysis of a predator-prey system with limit cycles. (English summary) **95d:92018**
- Pedley, T. J. see Jones, Mark Stephen; et al., **95i:76116**

92Exx Chemistry {For biochemistry, see 92C40.}

92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)

- Arimoto, Shigeru (with Spivakovsky, Mark) The asymptotic linearity theorem for the study of additivity problems of the zero-point vibrational energy of hydrocarbons and the total pi-electron energy of alternant hydrocarbons. (English summary) **95f:92025**
- (with Mezey, Paul G.) Symmetry transformations and operators in the repeat space $X_c(q)$ for additivity problems. (English summary) **95h:92027**
- Bal, Lucina see Diudea, Mircea V., **95d:92021a** and **95d:92021b**
- Baskin, I. I. (with Skvortsova, M. I.; Stankevich, I. V.; Zefirov, N. S.) On the basis of invariants of labelled molecular graphs. (Russian) **95k:92024**
- Bisch, P. M. see Vieira, F. M. C., **95m:92030**
- Chen, Rong Si see Lin, Ke Rong; et al., **95h:92032**
- Cipăianu, Teodora see Diudea, Mircea V.; et al., **95d:92021b** and **95d:92021c**
- Cyvin, B. N. see Lin, Ke Rong; et al., **95h:92032**
- Cyvin, S. J. see Lin, Ke Rong; et al., **95h:92032**
- Diudea, Mircea V. (with Bal, Lucina) Molecular topology. V. Recursive relationships for computing Y-indices in some particular graphs. (English summary) **95d:92021a**
- (with Cipăianu, Teodora; Bal, Lucina; Părv, Bazil) Molecular topology. VI. New Y-type indices of molecular branching. (English summary) **95d:92021b**
- (with Cipăianu, Teodora; Kacsó, Irén E.) Molecular topology. VII. New metric characteristics in alkanes (4-trees). (English summary) **95d:92021c**
- (with Horvath, D.; Kacsó, Irén E.; Minailiuc, O. M.; Părv, Bazil) Molecular topology. VIII. Centricities in molecular graphs. The MOLCEN algorithm. (English summary) **95d:92021d**
- Dörninger, Dietmar Hamiltonian circuits determining the order of chromosomes. (English summary) **95h:92028**
- Grund, Roland Konstruktion molekularer Graphen mit gegebenen Hybridisierungen und überlappungsfreien Fragmenten. [Construction of molecular graphs with given hybridizations and overlapping-free fragments] **95m:92029**
- Guo, Xiao Feng The canonical $P-V$ path elimination of a class of generalized benzenoid systems. (English and Chinese summaries)
- Gutman, Ivan Rectifying a misbelief: Frank Harary's role in the discovery of the coefficient-theorem in chemical graph theory. (English summary) **95h:92029**
- see also Lukovits, I., **95g:92024**
- Hansen, Pierre (with Zheng, Mao Lin) The Clar number of a benzenoid hydrocarbon and linear programming. (English summary)
- Horvath, D. see Diudea, Mircea V.; et al., **95d:92021d**
- John, Peter E. (with Mallion, R. B.) An algorithmic approach to the number of spanning trees in Buckminsterfullerene. (English summary) **95h:92030**
- (with Mallion, R. B.) Erratum: "An algorithmic approach to the number of spanning trees in Buckminsterfullerene" [J. Math. Chem. 15 (1994), no. 3-4, 261-271; MR 95h:92030].

- Die Berechnung des Wiener Index für einfache Polybäume. (English summary)
[Calculating the Wiener index for simple polytrees] 95h:92031
- Kacsó, Irén E. *see* Diudea, Mircea V.; et al. 95d:92021c and 95d:92021d
- Li, Xue Liang *see* Zhang, Fu Ji; et al. 95a:92024
- Liang, Chengzhi (with Mislów, Kurt) Classification of topologically chiral molecules. (English summary) 95f:92026
- Lin, Ke Rong (with Cyvin, S. J.; Cyvin, B. N.; Chen, Rong Si) Recognizing essentially disconnected benzenoids with fixed double bonds. (English summary) 95h:92032
- Lin, Yi Xun *see* Liu, Bo Lian
- Liu, Bo Lian (with Lin, Yi Xun) On extremum problems in hexagonal systems. (Chinese. English and Chinese summaries)
- Lukovits, I. (with Gutman, Ivan) Edge-decomposition of the Wiener number. (English summary) 95g:92024
- Mallion, R. B. *see* John, Peter E. 95h:92030
- Mezey, Paul G. *see* Arimoto, Shigeru. 95h:92027
- Minašić, O. M. *see* Diudea, Mircea V.; et al. 95d:92021d
- Mislów, Kurt *see* Weinberg, Noham. 95b:92021 and Liang, Chengzhi. 95f:92026
- Párv, Bazil *see* Diudea, Mircea V.; et al. 95d:92021b and 95d:92021d
- Skvortsova, M. I. *see* Baskin, I. I.; et al. 95k:92024
- Spivakovskiy, Mark *see* Arimoto, Shigeru. 95f:92025
- Stankevich, I. V. *see* Baskin, I. I.; et al. 95k:92024
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- Weinberg, Noham (with Mislów, Kurt) Distance functions as generators of chirality measures. (English summary) 95b:92021
- Yang, Chen Ning Fullerenes and carbon 60. (English summary) 95i:92008
- Zefirov, N. S. *see* Baskin, I. I.; et al. 95k:92024
- Zhang, Fu Ji (with Li, Xue Liang; Zhang, He Ping²) Hexagonal systems with fixed bonds. (English summary) 95a:92024
- Zhang, He Ping² *see* Zhang, Fu Ji; et al. 95a:92024
- Zheng, Mao Lin *see* Hansen, Pierre
- Zhu, Tian Wei A topological method for representing molecular structures. (Chinese. English and Chinese summaries)
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- Cameron, K. (with Sachs, Horst) Monotone path systems in simple regions. (English summary) 95b:68090
- Connolly, Michael L. Adjoint join volumes. (English summary) 95f:52006
- Floudas, Christodoulos A. *see* Maranas, Costas D. 95a:92006
- Greenspan, Donald Conservative difference equations. (English summary) 95h:39009
- Gutman, Ivan Independent vertex sets in some compound graphs. (English summary) 95c:05096
- James, Gordon The representation theory for Buckminsterfullerene. 95e:20022
- Lee, Shyi-Long (with Yeh, Yeong Nan) Topological analysis of some special classes of graphs. II. Steps, ladders, cylinders. (English summary) 95f:05079
- Li, Ze Sheng *see* Sun, Jia Zhong. 95h:70022
- Liang, Chengzhi (with Mislów, Kurt) On amphicheiral knots. (English summary) 95e:57017
- (with Mislów, Kurt) A left-right classification of topologically chiral knots. (English summary) 95g:57014
- (with Mislów, Kurt) On Borromean links. (English summary) 95j:57008
- Lloyd, E. Keith Counterexamples to Cyvin's conjecture. (English summary) 95i:05102
- Maranas, Costas D. (with Floudas, Christodoulos A.) Global minimum potential energy conformations of small molecules. (English summary) 95a:92006
- Morris, Russell Laplacian matrices of graphs: a survey. (English summary) 95e:05084
- Mislów, Kurt *see* Liang, Chengzhi. 95e:57017, 95g:57014 and 95j:57008
- Petitjean, Michel On the analytical calculation of van der Waals surfaces and volumes: some numerical aspects. (English summary) 95b:81238
- Rutherford, John S. The enumeration and symmetry-significant properties of derivative lattices. II. Classification by colour lattice group. (English summary) 95g:82094b
- Sachs, Horst *see* Cameron, K. 95b:68090
- Sun, Jia Zhong (with Li, Ze Sheng) On the reaction path Hamiltonian. (English summary) 95h:70022
- Tsukerblat, Boris S. ★ Group theory in chemistry and spectroscopy. (English summary) 95j:81081
- Yeh, Yeong Nan *see* Lee, Shyi-Long. 95f:05079

92E20 Classical flows, reactions, etc. [see also 80A30, 80A32]

- Averbukh, É. D. Explicitly balanced kinetic functions in inverse problems of chemical kinetics. (Russian. Russian summary) 95k:92025
- Choi, Yung Sze (with Lui, Roger; Yu, Xun) Electrolysis and isoelectric focusing. (English summary) 95h:92033
- Ermentrout, George Bard (with Troy, William) Phase-locking in a reaction-diffusion equation with twist. (English summary) 95j:92021
- Fedchenya, I. I. (with Sundström, Villy) Disordered models of chemical reactions in complex molecules. (see 95a:00008)
- Forbes, Lawrence K. (with Gray, Brian F.) Forced oscillations in an exothermic chemical reaction. (English summary) 95j:92022
- Gray, Brian F. *see* Forbes, Lawrence K. 95j:92022
- Gu, Dao Xiu Qualitative analysis of a class of biochemical systems. (Chinese. English and Chinese summaries) 95h:92034
- Lui, Roger *see* Choi, Yung Sze; et al. 95h:92033
- Nuño, Juan Carlos *see* Stadler, Peter F. 95f:92027
- Phillipson, Paul E. (with Schuster, Peter Karl) Map dynamics of autocatalytic networks and the replicator equations. (English summary) 95c:92021
- Schuster, Peter Karl *see* Phillipson, Paul E. 95c:92021

- Stadler, Peter F. (with Nuño, Juan Carlos) The influence of mutation on autocatalytic reaction networks. (English summary) 95f:92027
- Sundström, Villy *see* Fedchenya, I. I. (95a:00008)
- Troy, William *see* Ermentrout, George Bard. 95j:92021
- Tuikina, S. R. An inverse problem of the dynamics of sorption with final overdetermination. (Russian. English and Russian summaries) 95k:92026
- Yu, Xun *see* Choi, Yung Sze; et al. 95h:92033

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- Amann, Herbert (with Renardy, Michael) Reaction-diffusion problems in electrolysis. 95d:35081
- Daoud, A. T. *see* Ge, Wei Gao
- Farrell, Paul A. *see* Vulanović, Relja; et al. 95a:65119
- Fitzgibbon, W. E. (with Morgan, J. J.) Diffraction diffusion system with locally defined reaction. 95i:92002
- Ge, Wei Gao (with Daoud, A. T.) Limit cycles in the stability analysis of a chemical system. (English and Chinese summaries)
- Gegick, M. (with Young, Gerald W.) Plasma carburization of an axisymmetric steel sample. (English summary) 95c:76120
- Haario, Heikki (with Seidman, Thomas I.) Reaction and diffusion at a gas/liquid interface. II. (English summary) 95f:35112
- Lin, P. *see* Vulanović, Relja; et al. 95a:65119
- McCammon, J. A. (with Pettitt, B. M.; Scott, L. Ridgway) Ordinary differential equations of molecular dynamics. (English summary) 95f:65158
- Morgan, J. J. *see* Fitzgibbon, W. E. 95i:92002
- Pao, C. V. Nonlinear elliptic systems in unbounded domains. 95e:35078
- Pettitt, B. M. *see* McCammon, J. A.; et al. 95f:65158
- Pokhozhaev, S. I. A mathematical model of electrolysis. (Russian) 95e:35070a
- On a nonlinear problem in electrolysis. (Russian. Russian summary) 95e:35070b
- Ramazanov, M. D. Problems on the determination of the constants of chemical reactions from singularly perturbed differential equations. (Russian. Russian summary) 95d:34094
- Renardy, Michael *see* Amann, Herbert. 95d:35081
- Ruan, Weihua Asymptotic behavior and positive steady-state solutions of a reaction-diffusion model with autocatalysis and saturation law. 95f:35119
- Scott, L. Ridgway *see* McCammon, J. A.; et al. 95f:65158
- Seidman, Thomas I. *see* Haario, Heikki. 95f:35112
- Tang, Yan Lin The fluctuating dissipative behavior of a class of reaction-diffusion models. (Chinese. English and Chinese summaries) 95b:80008
- Vulanović, Relja (with Farrell, Paul A.; Lin, P.) Numerical solution of nonlinear singular perturbation problems modelling chemical reactions. (English summary) 95a:65119
- Wang, Ming Xin² (with Xiong, Shu Lin; Ye, Qi Xiao) Explicit wave front solutions of Noyes-Field systems for the Belousov-Zhabotinskii reaction. (English summary) 95d:35091
- Xiong, Shu Lin *see* Wang, Ming Xin²; et al. 95d:35091
- Ye, Qi Xiao *see* Wang, Ming Xin²; et al. 95d:35091
- Young, Gerald W. *see* Gegick, M. 95c:76120

92E99 None of the above, but in this section

Items with secondary classifications in 92E99

- Choi, Yung Sze (with Lui, Roger) Uniqueness of steady-state solutions for an electrochemistry model with multiple species. 95j:35225
- Lui, Roger *see* Choi, Yung Sze. 95j:35225
- Merkin, J. H. *see* Metcalf, M. J.; et al. 95b:80011
- Metcalf, M. J. (with Merkin, J. H.; Scott, S. K.) Reaction-diffusion waves in coupled isothermal autocatalytic chemical systems. (English summary) 95b:80011
- Scott, S. K. *see* Metcalf, M. J.; et al. 95b:80011

92F05 Other natural sciences

92Gxx Social and behavioral sciences: methodology {For statistics, see 62-XX.}

92G05 Measurement theory

- Aczél, János D. (with Moszner, Zenon) New results on "scale" and "size" arguments justifying invariance properties of empirical indices and laws. (English summary) 95k:92027
- Hübner, Ronald (with Suck, Reinhard) Algebraic representation of additive structures with an infinite number of components. (English summary) 95b:92022
- Klein, Ingo ★ Mögliche Skalentypen, invariante Relationen und wissenschaftliche Gesetze. (German. English, French and German summaries) [Possible types of scales, invariant relations, and scientific laws] 95j:92023
- Moszner, Zenon *see* Aczél, János D. 95k:92027
- Suck, Reinhard A theorem on order extensions: embeddability of a system of weak orders to meet solvability constraints. (English summary) 95g:92025
- *see also* Hübner, Ronald. 95b:92022

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- Candea, Juan Carlos (with Induráin Eraso, Esteban) Corrigendum: "Utility representations from the concept of measure" [Math. Social Sci. 26 (1993), no. 1, 51-62; MR 94g:90013]. (English summary) 95g:90014
- Induráin Eraso, Esteban *see* Candea, Juan Carlos. 95g:90014
- Maas, Arne (with Wakker, Peter) Additive conjoint measurement for multiattribute utility. (English summary) 95e:90018
- Wakker, Peter *see* Maas, Arne. 95e:90018

92Hxx Mathematical sociology (including anthropology)**92H10 Models of societies, social and urban evolution**

Haddad, Labib (with Sureau, Yves) Les groupes, les hypergroupes et l'énigme des Murgins—the Murgin case. (English summary) [Groups, hypergroups and the enigma of the Murgins—the Murgin case] 95f:92028
 Sureau, Yves see Haddad, Labib, 95f:92028

Items with secondary classifications in 92H10

Bicchiari, Cristina ★ Rationality and coordination. (English summary) 95d:90010
 Tanguiane, Andranick S. Arrow's paradox and mathematical theory of democracy. (English summary) 95c:90018

92H25 Spatial models [see also 90A25]

Items with secondary classifications in 92H25

Sonis, M. Behaviour of iteration processes near the boundary of stability domain with applications to the socio-spatial relative dynamics. (English summary) 95m:65214

92H30 Social networks

Borgatti, Stephen P. (with Everett, Martin G.) Ecological and perfect colorings. (English summary) 95d:92022
 — see also Everett, Martin G., 95d:92023
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 — see also Borgatti, Stephen P., 95d:92022

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 Sureau, Yves see Haddad, Labib, 95f:92028

92H35 Manpower systems [see also 90A50, 90B70]

Baxley, John V. (with Cummings, Peter A.) A model for the growth of the subpopulation of lawyers. (see 95c:00014)
 Cummings, Peter A. see Baxley, John V., (95c:00014)

Items with secondary classifications in 92H35

Gerontidis, Ioannis I. Stochastic equilibria in nonhomogeneous Markov population replacement processes. (English summary) 95c:60067
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92H99 None of the above, but in this section

Dassow, Jürgen (with Marcus, Solomon; Păun, Gheorghe) Iterative reading of numbers and "black-holes". (English summary)
 Epstein, Joshua M. The adaptive dynamic model of combat. (see 95a:00008)
 Marcus, Solomon see Dassow, Jürgen; et al.
 Păun, Gheorghe see Dassow, Jürgen; et al.

Items with secondary classifications in 92H99

Burkov, V. N. (with Enaleev, A. K.) Stimulation and decision-making in the active system theory. (English summary)
 Enaleev, A. K. see Burkov, V. N.
 Kelemen, Jozsef see Kelemenová, Alica, (95c:68012)
 Kelemenová, Alica (with Kelemen, Jozsef) From colonies to eco(grammar)systems: an overview. (see 95c:68012)

92Jxx Mathematical psychology

Items with secondary classifications in 92Jxx

(Ashford, Oliver M.) see Richardson, Lewis Fry, 95f:01039
 (Charnock, H.) see Richardson, Lewis Fry, 95f:01039
 (Drazin, P. G.) see Richardson, Lewis Fry, 95f:01039
 (Hunt, J. C. R.) see Richardson, Lewis Fry, 95f:01039
 Richardson, Lewis Fry ★ Collected papers of Lewis Fry Richardson. Vol. 2. 95f:01039
 (Smoker, P.) see Richardson, Lewis Fry, 95f:01039
 (Sutherland, Ian) see Richardson, Lewis Fry, 95f:01039

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Biography:
 Richardson, Lewis Fry see Richardson, Lewis Fry, 95f:01039
 Collected Works:
 Richardson, Lewis Fry see Richardson, Lewis Fry, 95f:01039

92J10 Cognitive psychology

Items with secondary classifications in 92J10

Hou, Ai Min A theory of measurement in diagnosis from first principles. (English summary) 95d:68116
 Stern, August ★ The quantum brain. 95c:81010

92J30 Psychophysics and psychophysiology; perception

Chambolle, Antonin A uniqueness result in the theory of stereo vision: coupling shape from shading and binocular information allows unambiguous depth reconstruction. (English and French summaries) 95h:92023
 Lopez, C. (with Morel, Jean-Michel) Axiomatization of shape analysis and application to texture hyperdiscrimination. (English summary) 95a:92025
 Morel, Jean-Michel see Lopez, C., 95a:92025
 Mumford, David Elastica and computer vision. 95a:92026

Items with secondary classifications in 92J30

Gårding, Jonas Shape from texture and contour by weak isotropy. (English summary) 95f:68250

92J40 Memory and learning [see also 68T05]

Athithan, G. Neural network models for spatio-temporal associative memory. (English summary)
 Nadal, Jean-Pierre see Watkin, T. L. H.
 Watkin, T. L. H. (with Nadal, Jean-Pierre) Optimal unsupervised learning. (English summary)

Items with secondary classifications in 92J40

Biehl, Michael (with Mietzner, Andreas) Statistical mechanics of unsupervised structure recognition. (English summary)
 Burshtein, David Nondirect convergence radius and number of iterations of the Hopfield associative memory. (English summary) 95h:92001
 Kabashima, Yoshiyuki Perfect loss of generalization due to noise in $K = 2$ parity machines. (English summary)
 Loukianova, Daria Capacité de mémoire dans le modèle de Hopfield. (English and French summaries) [Memory capacity in the Hopfield model] 95a:92005
 Metrick, Andrew (with Polak, Ben) Fictitious play in 2×2 games: a geometric proof of convergence. (English summary) 95h:90169
 Mietzner, Andreas see Biehl, Michael
 Polak, Ben see Metrick, Andrew, 95h:90169
 Tchuente, Maurice (with Tindo, Gilbert) Suites générées par une équation neuronale à mémoire. (English and French summaries) [Sequences generated by a neuronal recurrence equation with memory] 95a:39013
 Tindo, Gilbert see Tchuente, Maurice, 95a:39013

92J45 Measurement and performance

Narens, Louis The measurement theory of dense threshold structures. (English summary) 95c:92022

Items with secondary classifications in 92J45

Fishburn, Peter C. On "choice" probabilities derived from ranking distributions. (English summary) 95h:90019

92J99 None of the above, but in this section

Items with secondary classifications in 92J99

Alechina, Natasha see Suppes, Patrick, 95h:60004
 Dassow, Jürgen (with Marcus, Solomon; Păun, Gheorghe) Iterative reading of numbers and "black-holes". (English summary)
 Marcus, Solomon see Dassow, Jürgen; et al.
 Păun, Gheorghe see Dassow, Jürgen; et al.
 Suppes, Patrick (with Alechina, Natasha) The definability of the qualitative independence of events in terms of extended indicator functions. (English summary) 95h:60004

92Kxx Other social and behavioral sciences (mathematical treatment)**92K10 History, political science**

Items with secondary classifications in 92K10

Straffin, Philip D., Jr. Power and stability in politics. (see 95i:90005)

92K20 Linguistics [see also 03B65, 68S05]

Items with secondary classifications in 92K20

Carlson, Lauri Logic for dialogue games. (English summary) 95f:03042
 Kamareddine, Fairouz (with Klein, Ewan) Nominalization, prediction and type containment. (English summary) 95c:03087
 Klein, Ewan see Kamareddine, Fairouz, 95c:03087
 Stabler, Edward P., Jr. ★ The logical approach to syntax. (English summary) 95c:68184

92K99 None of the above, but in this section

Items with secondary classifications in 92K99

Epstein, Joshua M. The adaptive dynamic model of combat. (see 95a:00008)

93-XX Systems theory; control {For optimal control, see 49-XX.}

93-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 93-00

- Butkovskii, A. G. (with Pustyl'nikov, L. M.) ★ Characteristics of distributed-parameter systems. (English summary)
(Piché, Robert) see Butkovskii, A. G.
Pustyl'nikov, L. M. see Butkovskii, A. G.

93-01 Instructional exposition (textbooks, tutorial papers, etc.)

- d'Andréa-Novel, B. (with Cohen de Lara, M.) ★ Commande linéaire des systèmes dynamiques. (French. French summary) [Linear control of dynamical systems] 95b:93001
(Bensoussan, A.) see d'Andréa-Novel, B., 95b:93001
Cohen de Lara, M. see d'Andréa-Novel, B., 95b:93001
Lozachev, G. I. (with Popkov, A. V.) ★ Синтез систем автоматического управления с переменной структурой на основе функций Ляпунова. (Russian. Russian summary) [Design of automatic control systems with variable structure based on Lyapunov functions] 95c:93001
Popkov, A. V. see Lozachev, G. I., 95c:93001
Pronzato, Luc see Walter, Eric, 95b:93001
Stengel, Robert F. ★ Optimal control and estimation. (English summary) 95i:93001
Walter, Eric (with Pronzato, Luc) ★ Identification de modèles paramétriques à partir de données expérimentales. (French. French summary) [Identification of parametric models from experimental data] 95h:93001

Items with secondary classifications in 93-01

- Jacobs, O. L. R. ★ Introduction to control theory. (English summary) 95g:49001

93-02 Research exposition (monographs, survey articles)

- Ackermann, Jürgen (with Bartlett, Andrew; Kaesbauer, Dieter; Sienel, Wolfgang; Steinhauser, Reinhold) ★ Robust control. (English summary) 95h:93002
Åström, K. J. The future of control. (English summary)
Balakrishnan, Venkataraman see Boyd, Stephen P.; et al., 95f:93001
Barker, H. A. see Jobling, C. P.; et al.
Bartlett, Andrew see Ackermann, Jürgen; et al., 95h:93002
Battilotti, Stefano ★ Noninteracting control with stability for nonlinear systems. 95c:93002
Blondel, Vincent ★ Simultaneous stabilization of linear systems. 95m:93001
van den Bosch, P. P. J. (with van der Kluuw, A. C.) ★ Modeling, identification and simulation of dynamical systems. 95h:93003
Boyd, Stephen P. (with El Ghaoui, Laurent; Feron, Eric; Balakrishnan, Venkataraman) ★ Linear matrix inequalities in system and control theory. 95f:93001
Bucy, R. S. ★ Lectures on discrete time filtering. (English summary) 95h:93004
Cellier, François E. ★ Continuous system modeling. (English summary) 95c:93001
Davydov, A. A. ★ Qualitative theory of control systems. (English summary) 95h:93005
El Ghaoui, Laurent see Boyd, Stephen P.; et al., 95f:93001
Eykhoff, Pieter "Every good regulator of a system must be a model of that system". (English summary)
Feron, Eric see Boyd, Stephen P.; et al., 95f:93001
Flokerzi, Dietrich see Knobloch, Hans-W.; et al., 95c:93002
(Francis, Bruce A.) see Feedback control, nonlinear systems, and complexity, 95k:93001
Gajic, Zoran (with Shen, Xuemin) ★ Parallel algorithms for optimal control of large scale linear systems. 95i:93002
Gevers, Michel (with Li, Gang) ★ Parametrizations in control, estimation and filtering problems: accuracy aspects. (English summary) 95c:93003
Glasserman, Paul (with Yao, David D.) ★ Monotone structure in discrete-event systems. (English summary) 95f:93002
Grant, P. W. see Jobling, C. P.; et al.
Habets, Luc ★ Algebraic and computational aspects of time-delay systems. (Dutch summary) 95d:93001
Halanay, Aristide (with Ionescu, Vlad) ★ Time-varying discrete linear systems. (English summary) 95a:93001
Huijberts, H. J. C. ★ Dynamic feedback in nonlinear synthesis problems. 95d:93002
(Hunt, K. J.) see Polynomial methods in optimal control and filtering, 95c:93004
Ionescu, Vlad see Halanay, Aristide, 95a:93001
Isidori, Alberto see Knobloch, Hans-W.; et al., 95c:93002
Jobling, C. P. (with Grant, P. W.; Barker, H. A.; Townsend, Peter) Object-oriented programming in control system design: a survey. (English summary)
Kaesbauer, Dieter see Ackermann, Jürgen; et al., 95h:93002
Kamen, Edward W. Linear systems over rings: from R. E. Kalman to the present. (English summary) 95f:93003
Karlo, V. I. see Malyshev, V. V.; et al., 95g:93001
van Keulen, Bert ★ \mathcal{H}_∞ -control for distributed parameter systems: a state-space approach. (English summary) 95b:93002
van der Kluuw, A. C. see van den Bosch, P. P. J., 95h:93003
Knobloch, Hans-W. (with Isidori, Alberto; Flokerzi, Dietrich) ★ Topics in control theory. (English summary) 95c:93002
Krasil'shchikov, M. N. see Malyshev, V. V.; et al., 95g:93001
Kuiper, Margreet ★ First-order representations of linear systems. (English summary) 95j:93001
Lagnese, J. E. (with Leugering, Günter; Schmidt, E. J. P. Georg) ★ Modeling, analysis and control of dynamic elastic multi-link structures. (English summary) 95d:93003
Leugering, Günter see Lagnese, J. E.; et al., 95d:93003
Li, Gang² see Gevers, Michel, 95c:93003
Liao, Xiao Xin ★ Absolute stability of nonlinear control systems. (English summary) 95a:93002
Lions, Jacques-Louis Analyse mathématique des systèmes et de leur contrôle. [Mathematical analysis of systems and their control]
— Analyse mathématique des systèmes et de leur contrôle. [Mathematical analysis of systems and their control]
— Analyse mathématique des systèmes et de leur contrôle. [Mathematical analysis of systems and their control]
Liu, De Rong (with Michel, Anthony N.) ★ Dynamical systems with saturation nonlinearities. 95i:93003
Malyshev, V. V. (with Krasil'shchikov, M. N.; Karlov, V. I.) ★ Optimization of observation and control processes. 95g:93001
Michel, Anthony N. see Liu, De Rong, 95i:93003
Morari, Manfred The past and the next fifteen years. (English summary)
Pearson, J. B., Jr. On the parametrization of input-output maps for stable linear systems. 95f:93004
Perkins, John Trends in process systems engineering.
Schmidt, E. J. P. Georg see Lagnese, J. E.; et al., 95d:93003
Seborg, Dale E. A perspective on advanced strategies for process control. (English summary)
Shen, Xuemin see Gajic, Zoran, 95i:93002
Sienel, Wolfgang see Ackermann, Jürgen; et al., 95h:93002
Steinhauser, Reinhold see Ackermann, Jürgen; et al., 95h:93002
(Tannenbaum, Allen R.) see Feedback control, nonlinear systems, and complexity, 95k:93001
Townsend, Peter see Jobling, C. P.; et al.
Utkin, Vadim I. ★ Sliding modes in control and optimization. (English summary) 95f:93005
Van Dooren, Paul Some numerical challenges in control theory. (English summary) 95f:93006
(Volosov, V. M.) see Davydov, A. A., 95h:93005
Willems, Jan C. Dynamical systems, controllability, and observability: a post-modern point of view. 95c:93003
(Williams, B. G.) see Bucy, R. S., 95h:93004
Yao, David D. see Glasserman, Paul, 95f:93002
Zadeh, Lotfi A. The role of fuzzy logic in modeling, identification and control. (English summary)
(Zames, George) see Feedback control, nonlinear systems, and complexity, 95k:93001
- Items listed otherwise than by author
- Birthday:
Zames, George ★ Feedback control, nonlinear systems, and complexity. 95k:93001
- Conference:
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Feedback control, nonlinear systems, and complexity ★ Feedback control, nonlinear systems, and complexity. 95k:93001
Lecture Notes in Control and Information Sciences ★ Feedback control, nonlinear systems, and complexity. 95k:93001
Montreal, PQ ★ Feedback control, nonlinear systems, and complexity. 95k:93001
Polynomial methods in optimal control and filtering ★ Polynomial methods in optimal control and filtering. 95c:93004
- Items with secondary classifications in 93-02
- Akian, Marianne ★ Méthodes multigrilles en contrôle stochastique. (French. French summary) [Multigrid methods in stochastic control] 95c:49035
Anderson, Brian D. O. (with Moore, John Barratt) Kalman filtering: whence, what and whither? 95f:93077
(Barabanov, A. E.) see Petrov, Yu. P.
Boley, Daniel L. Krylov space methods on state-space control models. (English summary) 95c:93036
Boyce, David E. see Ran, Bin, 95m:90036
(Brockett, Roger) see Helmke, Uwe, 95f:49001
Chukarov, Sergei V. see Milyutin, Alexei A.; et al., 95k:49003
de Does, Jesse (with Schumacher, J. M.) Interpretations of the gap topology: a survey. (English summary) 95b:93087
Fuhrmann, P. A. Algebraic methods in system theory. (English summary) 95f:93021
Glowinski, Roland (with Lions, Jacques-Louis) Exact and approximate controllability for distributed parameter systems. 95g:93006
Guillaume, Patrick see Pintelon, R.; et al., 95g:93019
Helmke, Uwe (with Moore, John Barratt) ★ Optimization and dynamical systems. (English summary) 95f:49001
Ikramov, Kh. D. On pole assignment in linear time-independent systems. (Russian. English summary) 95d:93042
— (with Sagitov, M. S.) Solvability of matrix algebraic Riccati equations. (Russian. English summary) 95c:93037
Ilyutovich, A. E. see Milyutin, Alexei A.; et al., 95k:49003
Isidori, Alberto see Ruberti, A., 95f:93017
Kenney, Charles S. (with Laub, Alan J.; Papadopoulos, Philip M.) Matrix-sign algorithms for Riccati equations. (English summary) 95a:93074
Klamka, Jerzy Controllability of dynamical systems—a survey. (English summary) 95m:93010
Kocićki, Maciej Implicit linear discrete-time systems at a glance. (English summary)
Kučera, Vladimír Diophantine equations in control—a survey. (English summary) 95a:93022
Laub, Alan J. see Kenney, Charles S.; et al., 95a:93074
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Lions, Jacques-Louis see Glowinski, Roland, 95g:93006

- Ljung, Lennart On the precision of a model in system identification. (Russian. Russian summary) 95c:93027
- Milheiro de Oliveira, Paula M. L. P. ★ Études asymptotiques en filtrage non linéaire avec petit bruit d'observation. (French. English and French summaries) [Asymptotic studies in nonlinear filtering with small observation noise] 95g:93071
- Milyutin, Alexei A. (with Ilyutovich, A. E.; Osmolovskii, N. P.; Chukanov, Sergei V.) ★ Оптимальное управление в линейных системах. (Russian. Russian summary) [Optimal control in linear systems] 95k:49003
- Moore, John Barratt see Anderson, Brian D. O., 95f:93077 and Helmke, Uwe, 95j:49001
- Murray, Richard M. (with Li, Ze Xiang; Sastry, S. Shankar) ★ A mathematical introduction to robotic manipulation. 95k:70010
- Neittaanmäki, Pekka (with Tiba, Dan) ★ Optimal control of nonlinear parabolic systems. (English summary) 95i:49001
- Osmolovskii, N. P. see Milyutin, Alexei A.; et al., 95k:49003
- Papadopoulos, Philip M. see Kenney, Charles S.; et al., 95a:93074
- (Pervozvanskii, Anatoli A.) see Petrov, Yu. P.
- Petrov, Yu. P. Letter to the editor: "Optimization with respect to uniform-frequency indices (*H* theory)" [Avtomat. i Telemekh. 1992, no. 9, 3-32; MR 94d:93046] by A. E. Barabanov and A. A. Pervozvanskii. (Russian)
- Pintelon, R. (with Guillaume, Patrick; Rolain, Y.; Schoukens, J.; Van hamme, H.) Parametric identification of transfer functions in the frequency domain—a survey. (English summary) 95g:93019
- Ran, Bin (with Boyce, David E.) ★ Dynamic urban transportation network models. 95m:90036
- Rolain, Y. see Pintelon, R.; et al., 95g:93019
- Roubaud, Marie-Christine ★ Filtrage linéaire par morceaux avec petit bruit d'observation. (French. French summary) [Piecewise linear filtering with small observation noise] 95e:93077
- Ruberti, A. (with Isidori, Alberto) On the extensions of Kalman's canonical structure theorem. 95f:93017
- Sagitov, M. S. see Ikramov, Kh. D., 95e:93037
- Sastry, S. Shankar see Murray, Richard M.; et al., 95k:70010
- Schoukens, J. see Pintelon, R.; et al., 95g:93019
- Schumacher, J. M. see de Does, Jesse, 95b:93087
- (Sokolowski, Jan) see Shape design and optimization, 95e:49001
- Sontag, Eduardo D. Kalman's controllability rank condition: from linear to nonlinear. (English summary) 95g:93007
- Sulem, Agnès see Tapiero, Charles S., 95h:93093
- Tapiero, Charles S. (with Sulem, Agnès) Computational aspects in applied stochastic control. 95h:93093
- Tiba, Dan see Neittaanmäki, Pekka, 95i:49001
- Van hamme, H. see Pintelon, R.; et al., 95g:93019
- Wyman, Bostwick F. Models and modules: Kalman's approach to algebraic system theory. 95c:93024
- Zames, George Adaptive feedback, identification and complexity: an overview. (English summary) 95c:93042

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Shape design and optimization ★ Shape design and optimization. 95e:49001

Special Issue:

Shape design and optimization ★ Shape design and optimization. 95e:49001

93-03 Historical (must also be assigned at least one classification number from Section 01)

- Fuller, A. T. Maxwell's treatment of Siemens's hydraulic governor. (English summary) 95g:93002

Items with secondary classifications in 93-03

- Bittanti, Sergio The Riccati equation today. (Italian) (see 95b:01006)
- (Lyapunov, A. M.) see Parks, P. C., 95b:01014
- Parks, P. C. A. M. Lyapunov's stability theory—100 years on. (English summary) 95b:01014

93-04 Explicit machine computation and programs (not the theory of computation or programming)

- Barukh, Ierokham S. see Sgurev, Vasil S.
- Sgurev, Vasil S. (with Barukh, Ierokham S.) CSYMONI: an applied software package for real time process control. (Russian summary)

93-06 Proceedings, conferences, collections, etc.

- (Antoulas, Athanasios C.) see Mathematical system theory, 95c:93005
- (Bernstein, Dennis S.) see Two-mass benchmark problem, 95i:93008
- (Bulirsch, R.) see Optimal control, 95d:93005
- (Cohen, Guy) see Conference: Analysis and Optimization of Systems, 95b:93004
- (Dagli, Cihan) see Artificial neural networks in engineering, 95i:93004
- (Desch, Wolfgang) see Control and estimation of distributed parameter systems: nonlinear phenomena, 95i:93005
- (Dewilde, Patrick M.) see Challenges of a generalized system theory, 95b:93003
- (Efsthathiou, Janet) see Modern fuzzy control, 95m:93002
- (Ferrara, Antonella) see Special Issue: Sliding mode control, 95k:93002
- (Helmke, Uwe) see Systems and networks: mathematical theory and applications, 95c:93006 and 95c:93007
- (Kaashoek, Marinus A.) see Challenges of a generalized system theory, 95b:93003
- (Kalman, R. E.) see Mathematical system theory, 95c:93005
- (Kappel, Franz) see Control and estimation of distributed parameter systems: nonlinear phenomena, 95i:93005

- (Karcianias, Nicos) see New directions in control theory and applications, 95i:93007
- (Kármán, Miroslav) see Mutual impact of computing power and control theory, 95i:93006
- (Kučera, Vladimir) see New directions in control theory and applications, 95i:93007
- (Kunisch, Karl) see Control and estimation of distributed parameter systems: nonlinear phenomena, 95i:93005
- (Kurzbanckii, A. B.) see Modeling techniques for uncertain systems, 95b:93005
- (Mennicken, Reinhard) see Systems and networks: mathematical theory and applications, 95c:93006 and 95c:93007
- (Miele, Angelo) see Optimal control, 95d:93005
- (Pugh, A. C.) see Recent progress in the theory and applications of 2D systems, 95m:93003
- (Quadra, Jean-Pierre) see Conference: Analysis and Optimization of Systems, 95b:93004
- (Rogers, Eric L.) see Recent progress in the theory and applications of 2D systems, 95c:93003
- (Saurer, Josef) see Systems and networks: mathematical theory and applications, 95c:93006 and 95c:93007
- (Sokolowski, Jan) see Modelling, identification, sensitivity analysis and control of structures, 95e:93004
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- (Van Dooren, Paul) see Linear algebra for control theory, 95d:93004
- (Vel'ov, V. M.) see Modeling techniques for uncertain systems, 95b:93005
- (Verhaegen, Michel) see Challenges of a generalized system theory, 95b:93003
- (Warwick, Kevin) see New directions in control theory and applications, 95b:93006 and Mutual impact of computing power and control theory, 95i:93006
- (Well, K. H.) see Optimal control, 95d:93005
- (Wie, Bong) see Two-mass benchmark problem, 95i:93008
- (Wyman, Bostwick F.) see Linear algebra for control theory, 95d:93004

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- Amsterdam ★ Challenges of a generalized system theory. 95b:93003
- Artificial neural networks in engineering ★ Artificial neural networks in engineering. 95i:93004
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- Challenges of a Generalized System Theory ★ Challenges of a generalized system theory. 95b:93003
- Conference:
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- Control and Estimation of Distributed Parameter Systems: Nonlinear Phenomena ★ Control and estimation of distributed parameter systems: nonlinear phenomena. 95i:93005
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- Optimal Control ★ Optimal control. 95d:93005
- Control and estimation of distributed parameter systems: nonlinear phenomena ★ Control and estimation of distributed parameter systems: nonlinear phenomena. 95i:93005
- Crete ★ New directions in control theory and applications. 95b:93006
- Festschrift:
- Kalman, Rudolf Emil ★ Mathematical system theory. 95c:93005
- Freiburg ★ Optimal control. 95d:93005
- IEEE Symposium:
- New Directions in Control Theory and Applications ★ New directions in control theory and applications. 95b:93006
- IFAC Workshop:
- Mutual Impact of Computing Power and Control Theory ★ Mutual impact of computing power and control theory. 95i:93006
- Lecture Notes in Control and Information Sciences ★ 11th International Conference on Analysis and Optimization of Systems. 95b:93004
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- Mathematical system theory ★ Mathematical system theory. 95c:93005
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- Prague ★ Mutual impact of computing power and control theory. 95i:93006
- Recent progress in the theory and applications of 2D systems ★ Recent progress in the theory and applications of 2D systems. 95m:93003
- Regensburg ★ Systems and networks: mathematical theory and applications. Vol. I. 95c:93006
- ★ Systems and networks: mathematical theory and applications. Vol. II. 95c:93007
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- Sopron ★ Modeling techniques for uncertain systems. 95b:93005
- Special Issue:
- Artificial neural networks in engineering ★ Artificial neural networks in engineering. 95i:93004
- Modelling, identification, sensitivity analysis and control of structures ★ Modelling, identification, sensitivity analysis and control of structures. 95e:93004
- Modern fuzzy control ★ Modern fuzzy control. 95m:93002

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Sliding mode control ★ Special issue on sliding mode control. 95k:93002

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Mathematical Theory of Networks and Systems ★ Systems and networks: mathematical theory and applications. Vol. I. 95c:93006

— ★ Systems and networks: mathematical theory and applications. Vol. II. 95c:93007

New Directions in Control Theory and Applications ★ New directions in control theory and applications. 95i:93007

Systems and networks: mathematical theory and applications ★ Systems and networks: mathematical theory and applications. Vol. I. 95c:93006

— ★ Systems and networks: mathematical theory and applications. Vol. II. 95c:93007

Two-mass benchmark problem ★ Two-mass benchmark problem. 95i:93008

Vorau ★ Control and estimation of distributed parameter systems: nonlinear phenomena. 95i:93005

Items with secondary classifications in 93-06

(Baldi, O.) see Simulation and modeling. 95g:90005

(Bloch, Anthony M.) see Hamiltonian and gradient flows, algorithms and control. 95d:00025

(Cea, Jean) see Optimization and control. 95b:49004

(Corduneanu, Constantin) see Optimal control of differential equations. 95b:49003

(Da Prato, Giuseppe) see Control of partial differential equations. 95d:00022

(Désidéri, J.-A.) see Optimization and control. 95b:49004

(Férouz, Loula) see Optimization and control. 95b:49004

(Hunt, K. J.) see Polynomial methods in optimal control and filtering. 95c:93004

(Larroutourou, Bernard) see Optimization and control. 95b:49004

(Marchuk, G. I.) see Computational processes and systems. 95b:65005

(Miele, Angelo) see Applied mathematics in aerospace science and engineering. 95i:00024

(Pavel, Nicolae H.) see Optimal control of differential equations. 95b:49003

(Rousselet, Bernard) see Optimization and control. 95b:49004

(Salveti, Attilio) see Applied mathematics in aerospace science and engineering. 95i:00024

(Tubaro, Luciano) see Control of partial differential equations. 95d:00022

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Athens, OH ★ Optimal control of differential equations. 95b:49003

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Cea, Jean ★ Optimisation et contrôle. (French) [Optimization and control] 95b:49004

Colloquium:

Cea, Jean ★ Optimisation et contrôle. (French) [Optimization and control] 95b:49004

Computational processes and systems ★ Вычислительные процессы и системы. Вып. 9. (Russian) [Computational processes and systems. No. 9] 95b:65005

Computer systems and problems in decision making ★ Computer systems and problems in decision making. Software and models of systems analysis. 95m:90009

Conference:

Optimal Control of Differential Equations ★ Optimal control of differential equations. 95b:49003

Control of partial differential equations ★ Control of partial differential equations. 95d:00022

Erice ★ Applied mathematics in aerospace science and engineering. 95i:00024

Festschrift:

Corduneanu, Constantin C. ★ Optimal control of differential equations. 95b:49003

Hamiltonian and gradient flows, algorithms and control ★ Hamiltonian and gradient flows, algorithms and control. 95d:00025

IFIP Conference:

Control of Partial Differential Equations ★ Control of partial differential equations. 95d:00022

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Hovd, Morten (with Skogestad, Sigurd) Sequential design of decentralized controllers. (English summary)

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Ma, Dye Jun (with Cao, Xi-Ren) A direct approach to decentralized control of service rates in a closed Jackson network. (English summary)

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Wen, Changyun Decentralized adaptive regulation. (English summary)

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Zhang, Qing Ling (with Xie, Chong Yuan) A method using the theory of singular systems for decentralized robust control of a class of proper systems. (Chinese. English and Chinese summaries)

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- Hou, Ming (with Müller, Peter C.) Design of decentralized linear state function observers. (English summary)
- Kakishita, Takuya (with Kato, Yasuhiko; Kitaoka, Masatoshi) An analysis of complex systems using GERT approach and application of sensitivity analysis for networks. (Japanese)
- Kato, Yasuhiko see Kakishita, Takuya; et al.
- Kitaoka, Masatoshi see Kakishita, Takuya; et al.
- Li, Guang Quan (with Gao, Zhi Wei; Zheng, Pi E) Algebraic properties of finite fixed modes in singular decentralized control systems with direct control feedthrough. (Chinese. English and Chinese summaries) — see also Gao, Zhi Wei; et al.
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- Zheng, Pi E see Li, Guang Quan; et al. and Gao, Zhi Wei; et al.

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- Chen, Lu Ping A direct iteration method in controllable-like and observable-like aggregation for large-scale systems. (Chinese. English and Chinese summaries)
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- Rao, Ming see Shen, Xuemin; et al.
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- Jiang, Jiong (with Lou, Sheldon X.-C.) Production control of manufacturing systems: a multiple time scale approach. (English summary)
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- Cao, Jun Cheng (with Wei, Tong Li; Wang, Yuan Ming) An analysis of bifurcation solutions to a steady-state model for a multijunction device. (Chinese. English and Chinese summaries)
- Chang, Kuo-Chu see Mori, Shozo; et al.
- Chang, Sheng² Radial basis functions for signal prediction and system modelling. (English summary)
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- Martynuk, A. A. On a generalization of Richardson's model of the arms race. (Russian)
- Mori, Shozo (with Chang, Kuo-Chu; Chong, Chee-Yee; Dunn, Keh-Ping) Prediction of track purity and track accuracy in dense target environments. (English summary)
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- Paraskevopoulos, P. N. (with Varoufakis, S. J.; Antoniou, G. E.; Panagopoulos, P. E.; Vaitis, G. K.) Three-dimensional systems: model reduction via orthogonal series. (English summary)
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Grimble, M. J. Polynomial solution of the standard H_2 optimal control problem for machine control system applications: LQG gauge control problem design. (English summary)

Gulyaev, V. I. (with Koshkin, V. L.) Optimal control of the orientation of systems of rigid and deformable bodies in a central field of force. (Russian. Russian summary)

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"Optimal and adaptive control of underwater vehicles" Errata: "Optimal and adaptive control of underwater vehicles" [MIC—Model. Identif. Control 15 (1994), no. 4, 245–252] by S. I. Sagatun and R. Johnansson.

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— Errata corrigé: "Complicated version of a robust control scheme" [J. Optim. Theory Appl. **81** (1994), no. 3, 633–641; MR **95c:93058**]. (English summary)

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- Lefebvre, M.** LQG problems with a possibly infinite final cost. (English summary) **95a:49072**
- Li, Xun Jing** *see* Tang, Shan Jian. **95j:49030**
- Lou, Sheldon X.-C.** *see* Yin, Gang George; et al. **95b:90065** and Krichagina, E. V.; et al. **95h:90047**
- Mal'tsev, Arkadii Anatolievich** *see* Kurochkin, I. V.
- Müller, H.-O.** Maximum principles for discrete-time nonlinear stochastic control systems. (English summary) **95j:49029**
- Murphy, T.** *see* Fattorini, H. O. **95g:49030**
- Nakamura, Hideo** Statistical identification and optimal control of thermal power plants. (English summary) (*see* **95m:62007**)
- Nefedov, V. N.** Calculating a probabilistic optimization criterion by branch and cut methods. (Russian. Russian summary)
- Nijkamp, Peter** (with Reggiani, Aura) ★ Interaction, evolution and chaos in space. (English summary) **95f:90024**

Items with secondary classifications in 93E20

- Akian, Marianne** ★ Méthodes multigrilles en contrôle stochastique. (French. French summary) [Multigrid methods in stochastic control] **95c:49035**
- Alvarez, Olivier** A singular stochastic control problem in an unbounded domain. **95j:49031**

- Oksendal, Bernt *see* Brekke, Kjell Arne, 95b:60065
- Oliensis, John *see* Dupuis, Paul, 95g:49068
- Pantelides, George (with Papageorgiou, Nikolaos S.) Weakly maximal stationary programs for a discrete-time stochastic growth model. (English summary) 95a:90011
- Papageorgiou, Nikolaos S. *see* Pantelides, George, 95a:90011
- Pasik-Duncan, Boženna Limit theorems of probability theory in linear controlled evolution systems with quadratic cost. (English summary)
— *see also* Duncan, T. E.; et al., 95j:93046
- Pionovskii, A. B. Control of random sequences in problems with constraints. (Russian. Russian summary) 95k:49054
— A convex programming problem with linear constraints. (Russian. Russian summary) 95a:90072
- Reggiani, Aura *see* Nijkamp, Peter, 95f:90024
- Rogers, L. C. G. (with Shi, Zhan) Quadratic functionals of Brownian motion, optimal control, and the "Colditz" example. (English summary) 95b:60124
- Sano, Hideki (with Kunimatsu, Noboru) Feedback control of semilinear diffusion systems: inertial manifolds for closed-loop systems. (English summary) 95f:93042
- Sennott, Liam I. Another set of conditions for average optimality in Markov control processes. (English summary) 95i:90094
- Sethi, Suresh P. (with Zhang, Qing) ★ Hierarchical decision making in stochastic manufacturing systems. (English summary) 95j:90006
- Shaikhet, L. E. Modern state of the optimal control theory of stochastic integral Volterra's equations. (English summary) 95c:49044
- Shi, Zhan *see* Rogers, L. C. G., 95b:60124
- Shirakawa, Hiroshi Optimal consumption and portfolio selection with incomplete markets and upper and lower bound constraints. (English summary) 95c:90028
- Shreve, S. E. (with Soner, H. M.) Optimal investment and consumption with transaction costs. (English summary) 95g:90013
- Sokolowski, Jan *see* Gatarek, Dariusz, 95f:49037
- Soner, H. M. *see* Shreve, S. E., 95g:90013
- Stengel, Robert F. ★ Optimal control and estimation. (English summary) 95i:93001
- Stoikova, L. S. Some weak necessary conditions of extremum for the linear-fractional functional on a class of distribution functions. (Russian and Ukrainian summaries) 95c:49046
- Taksar, Michael I. *see* Krichagina, E. V.; et al., 95b:90047
- Tang, Shan Jian (with Yong, Jiong Min) Finite horizon stochastic optimal switching and impulse controls with a viscosity solution approach. (English summary) 95i:49049
— (with Li, Xun Jing) Necessary conditions for optimal control of stochastic systems with random jumps. (English summary) 95j:49030
- Tessitore, Gianmario Linear quadratic boundary control for an age equation perturbed by noise. 95i:49058
- Tsai, Y.-K. *see* Bai, S. X.
- Vágó, Zsuzsanna *see* Gerencsér, László, 95b:93082
- Vega-Amaya, Oscar Average optimality in semi-Markov control models on Borel spaces: unbounded cost and controls. 95j:90090
- de Vries, Douwe K. (with van den Hof, Paul M. J.) Quantification of uncertainty in transfer function estimation: a mixed probabilistic-worst-case approach. (English summary) 95m:93078
- Yan, H. M. *see* Yin, Gang George; et al., 95b:90065
- Ye, Jane Juan-Juan *see* Dempster, M. A. H., 95d:90096
- Yin, Gang George (with Yan, H. M.; Lou, Sheldon X.-C.) On a class of stochastic optimization algorithms with applications to manufacturing models. (English summary) 95b:90065
- Yong, Jiong Min *see* Tang, Shan Jian, 95i:49049
- Zane, Omar *see* Duncan, T. E.; et al., 95j:93046
- Zhang, Qing *see* Sethi, Suresh P., 95j:90006

93E24 Least squares and related methods

- Fitzpatrick, Ben G. (with Yin, Gang George) Empirical distributions in least squares estimation for distributed parameter systems. (English summary) 95i:93154
- Juditsky, Anatoli (with Priouret, Pierre) A robust algorithm for random parameter tracking. (English summary) 95c:93090
- Priouret, Pierre *see* Juditsky, Anatoli, 95c:93090
- Townsend, Nelson C. E. Implementation of control policies for ARMAX models. (English summary) 95j:93045
- Yin, Gang George *see* Fitzpatrick, Ben G., 95i:93154

Items with secondary classifications in 93E24

- Åström, K. J. Adaptive control. (English summary) 95j:93018
- Bercu, Bernard Théorème de limite centrale et loi du logarithme itéré pour les algorithmes des moindres carrés en poursuite adaptative. (English and French summaries) [Central limit theorem and law of iterated logarithm for least squares algorithms in adaptive tracking] 95m:93075
- Han, Zhi Gang *see* Hou, Zhong Sheng
- Hou, Zhong Sheng (with Han, Zhi Gang) An improved least squares algorithm for nonlinear systems. (Chinese. English and Chinese summaries)

93E25 Other computational methods

Items with secondary classifications in 93E25

- Gorelik, S. I. (with Kazarinov, L. S.) Prediction of random oscillatory processes on the basis of the exponential smoothing method. (Russian. Russian summary) 95b:93085
- Kazarinov, L. S. *see* Gorelik, S. I., 95b:93085

93E30 Computer simulations of stochastic systems

- Chisci, L. (with Garulli, A.; Zappa, Giovanni) Fast algorithms for generalized predictive control. (English summary) 95g:93080

- Garulli, A. *see* Chisci, L.; et al., 95g:93080
- Jaulin, L. (with Walter, Eric) Set inversion, with application to guaranteed nonlinear estimation and robust control. (see 95b:93005)
- Walter, Eric *see* Jaulin, L., (95b:93005)
- Zappa, Giovanni *see* Chisci, L.; et al., 95g:93080

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- Gaines, J. G. (with Lyons, T. J.) Random generation of stochastic area integrals. (English summary) 95f:60063
- Lyons, T. J. *see* Gaines, J. G., 95f:60063

93E35 Stochastic learning and adaptive control

- Adachi, Norihiko *see* Sogo, Takuya
- Ahn, Hyun-Sik *see* Jang, Tae-Jeong; et al.
- van Amerongen, J. *see* Hilhorst, R. A.; et al.
- Bialasiewicz, Jan T. *see* Radenković, Miloje S., 95b:93192
- Cao, Yi *see* Smyth, K. J.; et al.
- Choi, Chong-Ho *see* Jang, Tae-Jeong; et al.
- Duncan, T. E. (with Paul, M.; Pasik-Duncan, Boženna; Zane, Omar) On the stochastic adaptive control of an investment model with transaction fees. (English summary) 95j:93046
- Elliott, Robert James Measure change estimates for hidden Markov models. (English summary) 95d:93089
- Faul, M. *see* Duncan, T. E.; et al., 95j:93046
- Feng, Gang Robust variable structure model reference adaptive control. (English summary) 95i:93155
- Granichin, O. N. Stochastic approximation under dependent noises, detecting signals and adaptive control. (see 95g:00022)
- Guo, Lei Convergence and logarithm laws of self-tuning regulators. (English summary) 95i:93106
- Händel, Peter (with Tichavský, Petr) Adaptive estimation for periodic signal enhancement and tracking. (English summary)
- Hilhorst, R. A. (with van Amerongen, J.; Lönnberg, P.; Tulleken, H. J. A. F.) A supervisor for control of mode-switch processes. (English summary)
- Hu, Yue Ming (with Liu, Yong Qing; Xiao, Hui Min) A higher-order iterative learning control algorithm for nonlinear systems. (Chinese. English and Chinese summaries)
- Jang, Tae-Jeong (with Choi, Chong-Ho; Ahn, Hyun-Sik) Iterative learning control in feedback systems. (English summary)
- Kogan, M. M. (with Neimark, Yu. I.) Locally-optimal adaptive control of a linear stochastic object with a nonmeasurable state. (Russian. Russian summary) 95m:93086
- Kolosov, G. E. Approximate method for design of stochastic adaptive optimal control systems. (see 95f:00022)
- Kumar, Panganamala Ramana *see* Ren, Wei, 95b:93095
- Liu, Yong Qing *see* Hu, Yue Ming; et al.
- Lönnberg, P. *see* Hilhorst, R. A.; et al.
- Luzeaux, Dominique Process control and machine learning: rule-based incremental control. (English summary)
— (with Zavidovique, Bertrand) Apology and correction to: "Process control and machine learning: rule-based incremental control" [IEEE Trans. Automat. Control 39 (1994), no. 6, 1166-1171].
- Madsen, Henrik *see* Palsson, Olafur P.; et al.
- Maitelli, A. L. (with Yoneyama, Takashi) A two-stage dual suboptimal controller for stochastic systems using approximate moments. (English summary)
- Miyamoto, Junichi *see* Yamashita, Yuh; et al.
- Neimark, Yu. I. *see* Kogan, M. M., 95m:93086
- Owens, D. H. *see* Smyth, K. J.; et al.
- Palsson, Olafur P. (with Madsen, Henrik; Sogaard, Henning T.) Generalized predictive control for non-stationary systems. (English summary)
- Pasik-Duncan, Boženna *see* Duncan, T. E.; et al., 95j:93046
- Radenković, Miloje S. (with Bialasiewicz, Jan T.) Robustness of unmodified stochastic adaptive control algorithms. (English summary) 95b:93192
- Ren, Wei (with Kumar, Panganamala Ramana) Stochastic adaptive prediction and model reference control. (English summary) 95b:93095
- Rogers, Eric L. *see* Smyth, K. J.; et al.
- Saab, Samer S. On the P-type learning control. (English summary)
- van Schuppen, J. H. Tuning of Gaussian stochastic control systems. (English summary) 95g:93081
- Shima, Masasuke *see* Yamashita, Yuh; et al.
- Smyth, K. J. (with Cao, Yi; Rogers, Eric L.; Owens, D. H.) Signal-processing-based performance measures for differential linear repetitive processes. (English summary)
- Sogaard, Henning T. *see* Palsson, Olafur P.; et al.
- Sogo, Takuya (with Adachi, Norihiko) A learning control scheme for linear systems. (Japanese. English summary)
- Tichavský, Petr *see* Händel, Peter
- Tulleken, H. J. A. F. *see* Hilhorst, R. A.; et al.
- Xiao, Hui Min *see* Hu, Yue Ming; et al.
- Yamamoto, Yoshihiro Learning rule in neural network and adaptive algorithm. (Japanese)
- Yamashita, Yuh (with Miyamoto, Junichi; Shima, Masasuke) Adaptive multi-step learning control for time-varying linear systems. (Japanese. English summary)
- Yoneyama, Takashi *see* Maitelli, A. L.
- Zane, Omar *see* Duncan, T. E.; et al., 95j:93046
- Zavidovique, Bertrand *see* Luzeaux, Dominique
- Zhitetskii, L. S. On the adaptive control of linear stochastic plants with a discrete set of control actions under bounded perturbation conditions. (Russian. Russian summary)

Items with secondary classifications in 93E35

- Åström, K. J. Adaptive control. (English summary) 95j:93018
- Bemporad, A. (with Chisci, L.; Mosca, E.) On the stabilizing property of SIORHC. (English summary)

Bitmead, Robert R. *see* Frater, Michael R.; et al.

Bittanti, Sergio (with Campi, Marco) Comments on self-adaptive regulators based on the least-squares method and its recursive modifications. General approach. (Russian. Russian summary)

Campi, Marco *see* Bittanti, Sergio

Chen, Han Fu *see* Zhang, Ji Feng, 95e:93068

Chisci, L. *see* Bemporad, A.; et al.

Duncan, T. E. (with Pasik-Duncan, Bożenna; Stettner, Lukasz) Almost self-optimizing strategies for the adaptive control of diffusion processes. (English summary) 95e:93080
— (with Pasik-Duncan, Bożenna; Stettner, Lukasz) On the ergodic and the adaptive control of stochastic differential delay systems. (English summary) 95e:93081

Frater, Michael R. (with Bitmead, Robert R.; Johnson, C. Richard, Jr.) Local minima escape transients by stochastic gradient descent algorithms in blind adaptive equalizers. (English summary)

Glielmo, L. (with Marino, P.; Setola, R.; Vasca, F.) Reduced Kalman filtering for indirect adaptive control of the induction motor. (English summary)

Johnson, C. Richard, Jr. *see* Frater, Michael R.; et al.

Juditsky, Anatoli *see* Nazin, A. V., 95m:93083

Kogan, M. M. (with Neimark, Yu. I.) Functional capabilities of adaptive locally optimal control. (Russian. Russian summary)

Lucibello, Pasquale State steering by learning for a class of nonlinear control systems. (English summary)

Marino, P. *see* Glielmo, L.; et al.

Mosca, E. *see* Bemporad, A.; et al.

Nazin, A. V. (with Juditsky, Anatoli) Lower information bounds in the adaptive tracking problem for a linear discrete stochastic plant. (Russian. Russian summary) 95m:93083

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Petrov, A. I. (with Stetsko, G. O.) Optimization of stochastic terminal control systems adapting to changes in disturbance characteristics. (English summary) 95a:93133

Rao, Ming *see* Xia, Qijun; et al.

Setola, R. *see* Glielmo, L.; et al.

Shen, Xuemin *see* Xia, Qijun; et al.

Shil'man, S. V. Adaptive Kalman filters. (Russian)

Stetsko, G. O. *see* Petrov, A. I., 95a:93133

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Vasca, F. *see* Glielmo, L.; et al.

Walk, H. On the asymptotic behaviour of linear learning processes with partial forgetting. (English summary) 95b:62147

Xia, Qijun (with Rao, Ming; Ying, Yiqun; Shen, Xuemin) Adaptive fading Kalman filter with an application. (English summary)

Ying, Yiqun *see* Xia, Qijun; et al.

Zhang, Ji Feng (with Chen, Han Fu) Adaptive stabilization for continuous time systems with disturbances. (English summary) 95e:93068

93E99 None of the above, but in this section

Items with secondary classifications in 93E99

Delyon, Bernard (with Juditsky, Anatoli) Accelerated stochastic approximation. (English summary) 95a:62063

Juditsky, Anatoli *see* Delyon, Bernard, 95a:62063

94-XX Information and communication, circuits

94-01 Instructional exposition (textbooks, tutorial papers, etc.)

Renteria, C. (with Tapia-Recillas, Horacio; Vélez, William Yslas) ★ Breve introducción a códigos detectores-correctores de error. (Spanish) [Brief introduction to error-detecting and error-correcting codes] 95g:94001

Soumekh, Mehrdad ★ Fourier array imaging. (English summary) 95j:94001

Tapia-Recillas, Horacio *see* Renteria, C.; et al., 95g:94001

Vélez, William Yslas *see* Renteria, C.; et al., 95g:94001

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(Bose, N. K.) *see* Young, Randy K., 95j:94007

Pitas, Ioannis ★ Digital image processing algorithms. (English summary) 95c:68234

Poor, H. Vincent ★ An introduction to signal detection and estimation. 95c:94004

Reza, Fazlollah M. ★ An introduction to information theory. (English summary)

Wickerhauser, Mladen Victor ★ Adapted wavelet analysis from theory to software. (English summary) 95j:94005

Young, Randy K. ★ Wavelet theory and its applications. (English summary) 95j:94007

94-02 Research exposition (monographs, survey articles)

Items with secondary classifications in 94-02

Krichevskii, R. E. ★ Universal compression and retrieval. (English summary) 95g:94006

Li, Zun Quan *see* Liu, Mu Lan, 95c:94009

Liu, Mu Lan (with Li, Zun Quan) Coset correlation of LR m -arrays. (English summary) 95c:94009

Zayed, Ahmed I. ★ Advances in Shannon's sampling theory. (English summary) 95f:94008

Zimmermann, Karl-Heinz Beiträge zur algebraischen Codierungstheorie mittels modularer Darstellungstheorie. [Contributions to algebraic coding theory by means of modular

representation theory] 95h:94035

94-04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 94-04

Wickerhauser, Mladen Victor ★ Adapted wavelet analysis from theory to software. (English summary) 95j:94005

94-06 Proceedings, conferences, collections, etc.

(Brickell, Ernest F.) *see* Advances in cryptography—CRYPTO '92, 95b:94001

(Chmora, Andrew) *see* Error control, cryptography, and speech compression, 95j:94003

(Cohen, Gérard Denis) *see* Algebraic coding, 95b:94004

(Desmedt, Yvo G.) *see* Advances in cryptography—CRYPTO '94, 95j:94002

(Gulliver, T. Aaron) *see* Information theory and applications, 95b:94005

(Helleseth, Tor) *see* Advances in cryptography—EUROCRYPT '93, 95b:94003

(Imai, Hideki) *see* Advances in cryptography—ASIACRYPT '91, 95d:94001

(Litsyn, S. N.) *see* Algebraic coding, 95b:94004

(Lobstein, Antoine) *see* Algebraic coding, 95b:94004

(Matsumoto, Tsutomu) *see* Advances in cryptography—ASIACRYPT '91, 95d:94001

(River, Ronald L.) *see* Advances in cryptography—ASIACRYPT '91, 95d:94001

(Seberry, Jennifer) *see* Advances in cryptography—AUSCRYPT '92, 95d:94002

(Secord, Norman P.) *see* Information theory and applications, 95b:94005

(Stinson, Douglas R.) *see* Advances in cryptography—CRYPTO '93, 95b:94002

(Wicker, Stephen B.) *see* Error control, cryptography, and speech compression, 95j:94003

(Zémor, Gilles) *see* Algebraic coding, 95b:94004

(Zheng, Yuliang) *see* Advances in cryptography—AUSCRYPT '92, 95d:94002

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Advances in cryptography—AUSCRYPT '92 ★ Advances in cryptography—AUSCRYPT '92, 95d:94002

Advances in cryptography—CRYPTO '92 ★ Advances in cryptography—CRYPTO '92, 95b:94001

Advances in cryptography—CRYPTO '93 ★ Advances in cryptography—CRYPTO '93, 95b:94002

Advances in cryptography—CRYPTO '94 ★ Advances in cryptography—CRYPTO '94, 95j:94002

Advances in cryptography—EUROCRYPT '93 ★ Advances in cryptography—EUROCRYPT '93, 95b:94003

Algebraic coding ★ Algebraic coding, 95b:94004

Conference:

Cryptography ★ Advances in cryptography—CRYPTO '92, 95b:94001

—★ Advances in cryptography—CRYPTO '93, 95b:94002

—★ Advances in cryptography—CRYPTO '94, 95j:94002

Theory and Application of Cryptology ★ Advances in cryptography—ASIACRYPT '91, 95d:94001

Error control, cryptography, and speech compression ★ Error control, cryptography, and speech compression, 95j:94003

Fujiyoshida ★ Advances in cryptography—ASIACRYPT '91, 95d:94001

Gold Coast ★ Advances in cryptography—AUSCRYPT '92, 95d:94002

Information theory and applications ★ Information theory and applications, 95b:94005

Lecture Notes in Computer Science ★ Advances in cryptography—CRYPTO '92, 95b:94001

—★ Advances in cryptography—ASIACRYPT '91, 95d:94001

—★ Advances in cryptography—AUSCRYPT '92, 95d:94002

—★ Advances in cryptography—CRYPTO '93, 95b:94002

—★ Advances in cryptography—EUROCRYPT '93, 95b:94003

—★ Algebraic coding, 95b:94004

—★ Information theory and applications, 95b:94005

—★ Advances in cryptography—CRYPTO '94, 95j:94002

—★ Error control, cryptography, and speech compression, 95j:94003

Lofthus ★ Advances in cryptography—EUROCRYPT '93, 95b:94003

Moscow ★ Error control, cryptography, and speech compression, 95j:94003

Paris ★ Algebraic coding, 95b:94004

Rockland, ON ★ Information theory and applications, 95b:94005

Santa Barbara, CA ★ Advances in cryptography—CRYPTO '92, 95b:94001

—★ Advances in cryptography—CRYPTO '93, 95b:94002

—★ Advances in cryptography—CRYPTO '94, 95j:94002

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Algebraic Coding ★ Algebraic coding, 95b:94004

Information Protection ★ Error control, cryptography, and speech compression, 95j:94003

Information Theory ★ Information theory and applications, 95b:94005

Theory and Application of Cryptographic Techniques ★ Advances in cryptography—AUSCRYPT '92, 95d:94002

—★ Advances in cryptography—EUROCRYPT '93, 95b:94003

Items with secondary classifications in 94-06

(Mullen, Gary L.) *see* Finite fields: theory, applications, and algorithms, 95c:11002

(Shiue, Peter Jau-Shyong) *see* Finite fields: theory, applications, and algorithms, 95c:11002

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Conference:

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Contemporary Mathematics ★ Finite fields: theory, applications, and algorithms, 95c:11002

Finite fields: theory, applications, and algorithms ★ Finite fields: theory, applications, and algorithms. 95c:11002
 Las Vegas, NV ★ Finite fields: theory, applications, and algorithms. 95c:11002

94Axx Communication, information

94A05 Communication theory [see also 60G35, 90B12]

Ashley, Jonathan *see* McLaughlin, S. W.; et al., 95a:94001
 Byrnes, Christopher I. (with Lindquist, Anders) Toward a solution of the minimal partial stochastic realization problem. (English and French summaries) 95i:94001
 Dai, Jian She (with Wang, Shu Ning; Yang, X. Y.) The multichannel quickest-path problem. (English summary) 95j:94004
 Forney, G. David, Jr. On the duality of coding and quantizing. (English summary) 95b:94006
 Lindquist, Anders *see* Byrnes, Christopher I., 95i:94001
 Massey, James L. *see* Neeser, Fredy D., 95b:94007
 McLaughlin, S. W. (with Ashley, Jonathan; Neuhoof, D. L.) The optimality of the natural binary code. (English summary) 95a:94003
 Mertziou, B. G. Parallel modeling and structure of nonlinear Volterra discrete systems. (English summary) 95c:94001
 Mironov, A. A. (with Tsurkov, V. I.) Network models with fixed parameters at the communication nodes. I. (Russian. Russian summary)
 Naor, Moni (with Orlitsky, Alon; Shor, P. W.) Three results on interactive communication. (English summary) 95a:94003
 Neeser, Fredy D. (with Massey, James L.) Proper complex random processes with applications to information theory. (English summary) 95b:94007
 Neuhoof, D. L. *see* McLaughlin, S. W.; et al., 95a:94001
 Orlitsky, Alon *see* Naor, Moni; et al., 95d:94003
 Shor, P. W. *see* Naor, Moni; et al., 95a:94003
 Tsurkov, V. I. *see* Mironov, A. A.
 Wang, Shu Ning *see* Dai, Jian She; et al., 95j:94004
 Xia, Xiang Gen *see* Zhang, Zhen, 95f:94001
 Yakubovich, S. B. On the construction of integral transformations by the composition method. (Russian) 95i:94002
 Yang, X. Y. *see* Dai, Jian She; et al., 95j:94004
 Zhang, Zhen (with Xia, Xiang Gen) Three messages are not optimal in worst case interactive communication. (English summary) 95f:94001

Items with secondary classifications in 94A05

Barnett, Stephen M. (with Loudon, Rodney; Pegg, David T.; Phoenix, Simon J. D.) Communication using quantum states. (English summary) 95k:81007
 Faridani, Adel A generalized sampling theorem for locally compact abelian groups. (English summary) 95e:43006
 Goggin, Eimear M. Convergence in distribution of conditional expectations. (English summary) 95i:60021
 Jozsa, Richard Fidelity for mixed quantum states. (English summary)
 Loeliger, Hans-Andrea On existence proofs for asymptotically good Euclidean-space group codes. (English summary) 95a:94020
 Loudon, Rodney *see* Barnett, Stephen M.; et al., 95k:81007
 Ng, Michael K. Fast iterative methods for solving Toeplitz-plus-Hankel least squares problems. (English summary) 95j:65033
 Pegg, David T. *see* Barnett, Stephen M.; et al., 95k:81007
 Pestien, Victor (with Ramakrishnan, S.; Sarkar, Dilip) Packet transmission in a noisy-channel ring network. (English summary) 95h:68009
 Phoenix, Simon J. D. *see* Barnett, Stephen M.; et al., 95k:81007
 Ramakrishnan, S. *see* Pestien, Victor; et al., 95h:68009
 Sarkar, Dilip *see* Pestien, Victor; et al., 95h:68009
 Zayed, Ahmed I. ★ Advances in Shannon's sampling theory. (English summary) 95f:94008

94A11 Application of orthogonal functions in communication

Hiok, Irene Ong Gek (with Song, Goh Say) Regular and irregular sampling. (English summary) 95c:94002
 Hong, Jonathan (with Vetterli, Martin) Hartley transforms over finite fields. (English summary) 95c:94003
 Jones, William B. (with Njåstad, Olav; Waadeland, Haakon) An alternative way of using Szegő polynomials in frequency analysis. 95h:94001
 — (with Njåstad, Olav; Waadeland, Haakon) Asymptotics of zeros of orthogonal and para-orthogonal Szegő polynomials in frequency analysis. 95h:94002
 Kaiser, Gerald ★ A friendly guide to wavelets. (English summary) 95i:94003
 Njåstad, Olav *see* Jones, William B.; et al., 95h:94001 and 95h:94002
 Song, Goh Say *see* Hiok, Irene Ong Gek, 95c:94002
 Strömberg, Jan-Olov Wavelet transforms with the Franklin system and application in image processing. (English summary) 95c:94004
 Vetterli, Martin *see* Hong, Jonathan, 95c:94003
 Waadeland, Haakon *see* Jones, William B.; et al., 95h:94001 and 95h:94002
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- Horváth, E. K. Invariance groups of threshold functions. **95j:94032**
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- Koda, Norio (with Sasao, Tsutomu) A minimization method for AND-EXOR expressions using lower bound theorem. (English summary)
- Köksal, Muhammed Relations between t -, s -, z -domain descriptions of periodically-switched networks. (English summary) (see **95m:49001**)
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- Manev, Krassimir (with Bakoev, V.) Irreducible conjunctive normal forms of the zero function. (see **95m:00019**)
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- Zykov, K. A. Realization of some systems of Boolean functions by schemes consisting of two-input elements. (Russian. Russian summary) **95a:94023**

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- Arutyunyan, L. A. On the cardinality of traces of classes of nonhomogeneous functions. (Russian. Russian summary) **95c:06025**
- On the lattice of closed classes of nonhomogeneous functions with trace M . (Russian) **95h:06014**
- Characteristics of the cardinalities of certain traces of closed classes of nonhomogeneous functions. (Russian) **95m:06036**
- Chashkin, A. V. On the complexity of Boolean matrices, graphs and their corresponding Boolean functions. (Russian. Russian summary) **95g:68033**
- Chen, Xie Xiong (with Zhang, Wen Quan²) An investigation of symmetric functions based on the AND-exclusive OR algebraic system. (Chinese. English and Chinese summaries)
- Dubiner, Moshe (with Zwick, Uri) How do read-once formulae shrink? (English summary) **95m:06038**
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- Jukna, Stasys ★ Perfect matching requires exponential size monotone circuits. (English summary) **95c:68108**
- Kean, Alex (with Tsiknis, George) A corrigendum for the optimized-IPIA: "An incremental method for generating prime implicants/implicates" [J. Symbolic Comput. 9 (1990), no. 2, 185–206; MR 91h:68071]. (English summary) **95f:68089**
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- Nisan, Noam The communication complexity of threshold gates. (English summary) **95f:68110**
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94C12 Fault detection; testing

- Red'kin, N. P. On a mathematical model of faults in switching circuits. (Russian. Russian summary)

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- Stolov, E. L. ★ Методы компактного тестирования цифровых устройств. (Russian.

- Russian summary) [Methods for the compact testing of digital devices] 95i:68013
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 Song, Yu Jie (with Zeng, Fan Kan). The principle and method of generating an arbitrary k -order cofactor. (Chinese. English and Chinese summaries) 95k:94043
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94C30 Applications of design theory [see also 05Bxx]

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- MacMahon, P. A. The combinations of resistances. 95g:94029

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- Guo, Shixiong (with Salam, F. M. A.) The number of (equilibrium) steady-state solutions of models of power systems. (English summary) 95f:94045
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- Bothe, Hans-Heinrich. ★ Fuzzy logic. (German. German summary) 95f:03034
 Handa, Kenji (with Kalukottege, Prasansa; Ogura, Yukio). A probabilistic interpretation of the degree of fuzziness. (English summary) 95h:03122
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1991

MATHEMATICS

SUBJECT

CLASSIFICATION

Compiled in the Editorial Offices of MATHEMATICAL REVIEWS and ZENTRALBLATT FÜR MATHEMATIK

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1991 Mathematics Subject Classification

1991 Mathematics Subject Classification (MSC)

This is a corrected reprint of the 1991 MSC, which has been in use at MR starting with the January 1991 issue. The 1991 MSC was first printed in the Annual Index for 1990. Corrections and additions since then include the following: 11M36, 14J32, 17B69 and 53Z05 are new. Subsection 11Z50 has been relabeled 11Z05 and 73P05 has been relabeled 73P20. There are several entries in section 17 in which there have been small changes or additions in the description.

Instructions for using the 1991 Mathematics Subject Classification

These instructions apply uniformly to all fields listed. The main purpose of the classification is to help readers to find the items of present or potential interest to them as readily as possible—in MR, in Zbl, or anywhere else where this classification system is used. The review of a paper or book should be printed in the section where it will receive the broadest attention from all readers possibly interested in it—these include both people working in that area and people who are familiar with that area and apply its results and methods elsewhere (inside or outside of mathematics). It will be extremely useful for both readers and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

Every paper or book reviewed in MR receives precisely one "primary" classification number, which is simply the number of the section in which the review of the item will be printed. This section should be the one that covers the principal contribution.

When a paper contains several principal contributions in different areas, the primary classification should cover the "most important" among them. A paper or book may receive one or several "secondary" classification numbers (or "cross-references") to cover any remaining principal contributions, ancillary results, motivation or origin of the problems discussed, intended or potential field of application, or other significant aspects worthy of notice.

The "primary" principal contribution is meant to be the one including the most important part of the work actually done in the paper. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is (perhaps) at present only of interest to computer scientists, belongs primarily in 05C with a cross-reference in 68; conversely, a paper whose overall content lies mainly in computer science should receive a primary classification in 68, even if it makes heavy use of graph theory and proves several new graph-theoretic results along the way.

For an item with its primary classification in an "applied" section (68 through 94), it is recommended that a cross-reference be given to any "pure" mathematics section (00 through 65) to which the item being classified makes a contribution.

There are two types of cross-references given after many classifications in the list. The first type is of the form "[For A, see X]"; if this appears in section Y, it means that for contributions described by A one should usually assign the classification X, not Y. The other type of cross-reference merely points out related classifications; it is of the form "[See also ...]", "[See mainly ...]", etc., and the classifications listed in the brackets may, but need not, be added to the classification of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier will have to judge which classification is the most appropriate for the paper at hand.

00-XX GENERAL

- 00-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 00-02 Research exposition (monographs, survey articles)
- 00Axx General and miscellaneous specific topics
- 00A05 General mathematics
- 00A06 Mathematics for nonmathematicians (engineering, social sciences, etc.)
- 00A07 Problem books
- 00A08 Recreational mathematics
- 00A15 Bibliographies
- 00A20 Dictionaries and other general reference works
- 00A22 Formulaires
- 00A30 Philosophy of mathematics [See also 03A05]
- 00A35 Methodology of mathematics, didactics
- 00A69 General applied mathematics [For physics, see 00A79 and Sections 70 through 86]
- 00A71 Theory of mathematical modeling
- 00A72 General methods of simulation
- 00A73 Dimensional analysis
- 00A79 Physics (use more specific entries from Sections 70 through 86 when possible)
- 00A99 Miscellaneous topics
- 00Bxx Conference proceedings and collections of papers
- 00B05 Collections of abstracts of lectures
- 00B10 Collections of articles of general interest
- 00B15 Collections of articles of miscellaneous specific content
- 00B20 Proceedings of conferences of general interest
- 00B25 Proceedings of conferences of miscellaneous specific interest
- 00B30 Festschriften
- 00B50 Volumes of selected translations
- 00B55 Miscellaneous volumes of translations
- 00B60 Collections of reprinted articles [See also 01A75]

01-XX HISTORY AND BIOGRAPHY [See also the classification number -03 in the other sections]

- 01-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 01-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 01-02 Research exposition (monographs, survey articles)
- 01-06 Proceedings, conferences, collections, etc.
- 01-08 Computational methods
- 01Axx History of mathematics and mathematicians
- 01A05 General histories, source books
- 01A07 Ethnomathematics, general
- 01A10 Paleolithic, Neolithic
- 01A12 Indigenous cultures of the Americas
- 01A13 Other indigenous cultures (non-European)
- 01A15 Indigenous European cultures (pre-Greek, etc.)
- 01A16 Egyptian
- 01A17 Babylonian
- 01A20 Greek, Roman
- 01A25 China

- 01A27 Japan
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- 01A30 Islam (Medieval)
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- 01A35 Medieval
- 01A40 15th and 16th centuries, Renaissance
- 01A45 17th century
- 01A50 18th century
- 01A55 19th century
- 01A60 20th century
- 01A65 Contemporary
- 01A67 Future perspectives
- 01A70 Biographies, obituaries, personalia, bibliographies
- 01A72 Schools of mathematics
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- 01A75 Collected or selected works; reprintings or translations of classics [See also 00B60]
- 01A80 Sociology (and profession) of mathematics
- 01A99 Miscellaneous topics

03-XX MATHEMATICAL LOGIC AND FOUNDATIONS

- 03-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 03-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 03-02 Research exposition (monographs, survey articles)
- 03-03 Historical (must also be assigned at least one classification number from Section 01)
- 03-04 Explicit machine computation and programs (not the theory of computation or programming)
- 03-06 Proceedings, conferences, collections, etc.
- 03A05 Philosophical and critical [For philosophy of mathematics, see 00A30]
- 03Bxx General logic
- 03B05 Classical propositional logic
- 03B10 Classical first-order logic
- 03B15 Higher-order logic and type-theory
- 03B20 Subsystems of classical logic (including intuitionistic logic)
- 03B22 Abstract deductive systems
- 03B25 Decidability of theories and sets of sentences [See also 11U05, 12L05, 20F10]
- 03B30 Foundations and axiomatics of classical theories
- 03B35 Mechanization of proofs and logical operations [See also 68T15]
- 03B40 Combinatory logic and λ -calculus
- 03B45 Modal and tense logic [For provability logics, see also 03F40]
- 03B46 Relevance and entailment
- 03B48 Probability and inductive logic [See also 60A05]
- 03B50 Many-valued logic
- 03B52 Fuzzy logic [See also 94D05]
- 03B53 Paraconsistent logic
- 03B55 Intermediate logics
- 03B60 Other nonclassical logic

03B65 Logic of natural languages [See also 68S05, 92K20]
 03B70 Logic of programming [See also 68Q55, 68Q60]
 03B80 Other applications of logic
 03B99 None of the above, but in this section
03Cxx Model theory
 03C05 Equational classes, universal algebra [See also 08Axx]
 03C07 Basic properties of first-order languages and structures
 03C10 Quantifier elimination and related topics
 03C13 Finite structures
 03C15 Denumerable structures
 03C20 Ultraproducts and related constructions
 03C25 Model-theoretic forcing
 03C30 Other model constructions
 03C35 Categoricity and completeness of theories
 03C40 Interpolation, preservation, definability
 03C45 Stability and related concepts
 03C50 Models with special properties (saturated, rigid, etc.)
 03C52 Properties of classes of models
 03C55 Set-theoretic model theory
 03C57 Recursion-theoretic model theory [See also 03D45]
 03C60 Model-theoretic algebra [See also 08C10, 12Lxx, 13L05]
 03C62 Models of arithmetic and set theory [See also 03Hxx]
 03C65 Models of other mathematical theories
 03C68 Other classical first-order model theory
 03C70 Logic on admissible sets
 03C75 Other infinitary logic
 03C80 Logic with extra quantifiers and operators [See also 03B45]
 03C85 Second- and higher-order model theory
 03C90 Nonclassical models (Boolean-valued, sheaf, etc.)
 03C95 Abstract model theory
 03C99 None of the above, but in this section
03Dxx Recursion theory
 03D03 Thue and Post systems, etc.
 03D05 Automata and formal grammars in connection with logical questions [See also 68Qxx]
 03D10 Turing machines and related notions [See also 68Q05]
 03D15 Complexity of computation [See also 68Q15]
 03D20 Recursive functions and relations, subrecursive hierarchies
 03D25 Recursively enumerable sets and degrees
 03D30 Other degrees; reducibilities
 03D35 Undecidability and degrees of sets of sentences
 03D40 Word problems, etc. [See also 06B25, 08A50, 20F10]
 03D45 Theory of numerations, effectively presented structures [See also 03C57]
 03D50 Recursive equivalence types of sets and structures, isol
 03D55 Hierarchies
 03D60 Recursion theory on ordinals, admissible sets, etc.
 03D65 Higher-type and set recursion theory
 03D70 Inductive definability
 03D75 Abstract and axiomatic recursion theory
 03D80 Applications of recursion theory
 03D99 None of the above, but in this section
03Exx Set theory [See also 04-XX]
 03E05 Combinatorial set theory [See also 04A20]
 03E10 Ordinal and cardinal numbers [See also 04A10]
 03E15 Descriptive set theory [See also 04A15, 28A05, 54H05]
 03E20 Other classical set theory
 03E25 Axiom of choice and related propositions [See also 04A25]
 03E30 Axiomatics of classical set theory and its fragments
 03E35 Consistency and independence results
 03E40 Other aspects of forcing and Boolean-valued models
 03E45 Constructibility, ordinal definability, and related notions
 03E47 Other notions of set-theoretic definability
 03E50 Continuum hypothesis and Martin's axiom [See also 04A30, 54A25]
 03E55 Large cardinals
 03E60 Determinacy and related principles which contradict the axiom of choice
 03E65 Other hypotheses and axioms
 03E70 Nonclassical and second-order set theories
 03E72 Fuzzy sets [See mainly 04A72]
 03E75 Applications
 03E99 None of the above, but in this section
03Fxx Proof theory and constructive mathematics
 03F03 Proof theory, general
 03F05 Cut-elimination and normal-form theorems
 03F07 Structure of proofs
 03F10 Functionals in proof theory
 03F15 Recursive ordinals and ordinal notations
 03F20 Complexity of proofs
 03F25 Relative consistency and interpretations
 03F30 First-order arithmetic and fragments

03F35 Second- and higher-order arithmetic and fragments [See also 03E30, 03E70]
 03F40 Gödel numberings in proof theory
 03F50 Metamathematics of constructive systems
 03F55 Intuitionistic mathematics
 03F60 Constructive and recursive analysis [See also 26E40, 46S30, 47S30]
 03F65 Other constructive mathematics [See also 26E40, 46S30, 47S30]
 03F99 None of the above, but in this section
03Gxx Algebraic logic
 03G05 Boolean algebras [See also 06Exx]
 03G10 Lattices and related structures [See also 06Bxx]
 03G12 Quantum logic [See also 81P10]
 03G15 Cylindric and polyadic algebras; relation algebras
 03G20 Łukasiewicz and Post algebras [See also 06D25, 06D30]
 03G25 Other algebras related to logic [See also 06F35]
 03G30 Categorical logic, topoi [See also 18B25]
 03G99 None of the above, but in this section
03Hxx Nonstandard models [See also 03C62]
 03H05 Nonstandard models in mathematics [See also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]
 03H10 Other applications of nonstandard models (economics, physics, etc.)
 03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05]
 03H99 None of the above, but in this section
04-XX SET THEORY [See also 03Exx]
 04-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 04-01 Instructional exposition (textbooks, tutorial papers, etc.)
 04-02 Research exposition (monographs, survey articles)
 04-03 Historical (must also be assigned at least one classification number from Section 01)
 04-04 Explicit machine computation and programs (not the theory of computation or programming)
 04-06 Proceedings, conferences, collections, etc.
 04A03 Set algebra
 04A05 Relations, functions [See also 08A02]
 04A10 Ordinal and cardinal numbers; generalizations [See also 03E10]
 04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 03E15, 26A21, 28A05, 54H05]
 04A20 Combinatorial set theory [See also 03E05, 05A05]; filters
 04A25 Axiom of choice and equivalent propositions (Zorn's lemma, etc.) [See also 03E25]
 04A30 Continuum hypothesis, generalized continuum hypothesis [See also 03E50, 54A25]
 04A72 Fuzzy sets, fuzzy relations [See also 03E72, 94D05] {For fuzzy versions, see specific sections}
 04A99 Miscellaneous topics
05-XX COMBINATORICS [For finite fields, see 11Txx]
 05-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 05-01 Instructional exposition (textbooks, tutorial papers, etc.)
 05-02 Research exposition (monographs, survey articles)
 05-03 Historical (must also be assigned at least one classification number from Section 01)
 05-04 Explicit machine computation and programs (not the theory of computation or programming)
 05-06 Proceedings, conferences, collections, etc.
05Axx Classical combinatorial problems
 05A05 Combinatorial choice problems (subsets, representatives, permutations)
 05A10 Factorials, binomial coefficients, combinatorial functions [See also 11B65, 33Cxx]
 05A15 Exact enumeration problems, generating functions [See also 33Dxx]
 05A16 Asymptotic enumeration
 05A17 Partitions of integers [See also 11P81, 11P82, 11P83]
 05A18 Partitions of sets
 05A19 Combinatorial identities
 05A20 Combinatorial inequalities
 05A30 q -calculus and related topics [See also 03Dxx]
 05A40 Umbral calculus
 05A99 None of the above, but in this section
05Bxx Designs and configurations [For applications of design theory, see 94C30]
 05B05 Block designs [See also 51E05, 62K10]
 05B07 Triple systems
 05B10 Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13]
 05B15 Orthogonal arrays, Latin squares, Room squares
 05B20 Matrices (incidence, Hadamard, etc.)
 05B25 Finite geometries [See also 51D20, 51Exx]
 05B30 Other designs, configurations [See also 51E30]
 05B35 Matroids, geometric lattices [See also 52B40, 90C27]
 05B40 Packing and covering [See also 11H31, 52C15, 52C17]

- 05B45 Tessellation and tiling problems [See also 52C20, 52C22]
 05B50 Polyominoes
 05B99 None of the above, but in this section
05Cxx Graph theory (For applications of graphs, see 68Q90, 68R10, 90C35, 94C15)
 05C05 Trees
 05C10 Topological graph theory, embedding [See also 57M15, 57M25]
 05C12 Distance in graphs
 05C15 Chromatic theory of graphs and maps
 05C20 Directed graphs (digraphs), tournaments
 05C25 Graphs and groups [See also 20F32]
 05C30 Enumeration of graphs and maps
 05C35 Extremal problems [See also 90C35]
 05C38 Paths and cycles [See also 90B10]
 05C40 Connectivity
 05C45 Eulerian and Hamiltonian graphs
 05C50 Graphs and matrices
 05C55 Generalized Ramsey theory
 05C60 Isomorphism problems (reconstruction conjecture, perfect graphs, etc.)
 05C65 Hypergraphs
 05C70 Factorization, matching, covering and packing
 05C75 Structural characterization of types of graphs
 05C78 Graph labelling (graceful graphs, bandwidth, etc.)
 05C80 Random graphs
 05C85 Graph algorithms [See also 68Q20, 68R10]
 05C90 Applications
 05C99 None of the above, but in this section
05Dxx Extremal combinatorics
 05D05 Extremal set theory
 05D10 Ramsey theory
 05D15 Transversal (matching) theory
 05D99 None of the above, but in this section
05Exx Algebraic combinatorics
 05E05 Symmetric functions
 05E10 Tableaux, representations of the symmetric group [See also 20C30]
 05E15 Combinatorial problems concerning the classical groups [See also 22E45, 33C80]
 05E20 Group actions on designs, geometries and codes
 05E25 Group actions on posets and homology groups of posets [See also 06A09]
 05E30 Association schemes, strongly regular graphs
 05E35 Orthogonal polynomials [See also 33C45, 33C50, 33D45]
 05E99 None of the above, but in this section
06-XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35]
 06-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 06-01 Instructional exposition (textbooks, tutorial papers, etc.)
 06-02 Research exposition (monographs, survey articles)
 06-03 Historical (must also be assigned at least one classification number from Section 01)
 06-04 Explicit machine computation and programs (not the theory of computation or programming)
 06-06 Proceedings, conferences, collections, etc.
06Axx Ordered sets
 06A05 Total order
 06A06 Partial order, general
 06A07 Combinatorics of partially ordered sets
 06A08 Shellable posets, Cohen-Macaulay posets [See also 52B20]
 06A09 Cohomology of posets [See also 05E25]
 06A12 Semilattices [See also 20M10]
 06A15 Galois correspondences, closure operators
 06A23 Complete lattices, completions
 06A99 None of the above, but in this section
06Bxx Lattices [See also 03G10]
 06B05 Structure theory
 06B10 Ideals, congruence relations
 06B15 Representation theory
 06B20 Varieties of lattices
 06B25 Free lattices, projective lattices, word problems [See also 03D40, 08A50, 20F10]
 06B30 Topological lattices, order topologies [See also 06F30, 22A26, 54F05, 54H12]
 06B35 Continuous lattices, generalizations, applications [See also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]
 06B99 None of the above, but in this section
06Cxx Modular lattices, complemented lattices
 06C05 Modular lattices, Desarguesian lattices
 06C10 Semimodular lattices, geometric lattices
 06C15 Complemented lattices, orthocomplemented lattices
 06C20 Complemented modular lattices, continuous geometries
 06C99 None of the above, but in this section
06Dxx Distributive lattices
 06D05 Structure and representation theory
 06D10 Complete distributivity
 06D15 Pseudocomplemented lattices
 06D20 Heyting algebras [See also 03Gxx]
 06D25 Post algebras [See also 03G20]
 06D30 De Morgan algebras, Łukasiewicz algebras [See also 03G20]
 06D99 None of the above, but in this section
06Exx Boolean algebras (Boolean rings) [See also 03G05]
 06E05 Structure theory
 06E10 Chain conditions, complete algebras
 06E15 Stone space and related constructions
 06E20 Ring-theoretic properties [See also 16E50, 16G30]
 06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)
 06E30 Boolean functions [See also 94C10]
 06E99 None of the above, but in this section
06Fxx Ordered structures
 06F05 Ordered semigroups [See also 20Mxx]
 06F10 Noether lattices
 06F15 Ordered groups [See also 20F60]
 06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [See also 46A40]
 06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80}
 06F30 Topological lattices, order topologies [See also 06B30, 22A26, 54F05, 54H12]
 06F35 BCK-algebras, BCI-algebras [See also 03G25]
 06F99 None of the above, but in this section
08-XX GENERAL ALGEBRAIC SYSTEMS
 08-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 08-01 Instructional exposition (textbooks, tutorial papers, etc.)
 08-02 Research exposition (monographs, survey articles)
 08-03 Historical (must also be assigned at least one classification number from Section 01)
 08-04 Explicit machine computation and programs (not the theory of computation or programming)
 08-06 Proceedings, conferences, collections, etc.
08Axx Algebraic structures [See also 03C05]
 08A02 Relational systems, laws of composition
 08A05 Structure theory
 08A30 Subalgebras, congruence relations
 08A35 Automorphisms, endomorphisms
 08A40 Operations, polynomials, primal algebras
 08A45 Equational compactness
 08A50 Word problems [See also 03D40, 06B25, 20F10, 68R15]
 08A55 Partial algebras
 08A60 Unary algebras
 08A62 Finitary algebras
 08A65 Infinitary algebras
 08A70 Applications of universal algebra in computer science
 08A99 None of the above, but in this section
08Bxx Varieties
 08B05 Equational logic, Mal'cev (Mal'tsev) conditions
 08B10 Congruence modularity, congruence distributivity
 08B15 Lattices of varieties
 08B20 Free algebras
 08B25 Products, amalgamated products, and other kinds of limits and colimits [See also 18A30]
 08B26 Subdirect products and subdirect irreducibility
 08B30 Injectives, projectives
 08B99 None of the above, but in this section
08Cxx Other classes of algebras
 08C05 Categories of algebras [See also 18C05]
 08C10 Axiomatic model classes [See also 03Cxx, in particular 03C60]
 08C15 Quasivarieties
 08C99 None of the above, but in this section
11-XX NUMBER THEORY
 11-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 11-01 Instructional exposition (textbooks, tutorial papers, etc.)
 11-02 Research exposition (monographs, survey articles)
 11-03 Historical (must also be assigned at least one classification number from Section 01)
 11-04 Explicit machine computation and programs (not the theory of computation or programming)
 11-06 Proceedings, conferences, collections, etc.
11Axx Elementary number theory (For analogues in number fields, see 11R04)
 11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors
 11A07 Congruences; primitive roots; residue systems
 11A15 Power residues, reciprocity

- 11A25 Arithmetic functions; related numbers; inversion formulas
 11A41 Primes
 11A51 Factorization; primality
 11A55 Continued fractions [For approximation results, see 11J70; see also 11K50, 30B70, 40A15]
 11A63 Radix representation; digital problems [For metric results, see 11K16]
 11A67 Other representations
 11A99 None of the above, but in this section
11Bxx Sequences and sets
 11B05 Density, gaps, topology
 11B13 Additive bases [See also 05B10]
 11B25 Arithmetic progressions [See also 11N13]
 11B34 Representation functions
 11B37 Recurrences [For applications to special functions, see 33-XX]
 11B39 Fibonacci and Lucas numbers and polynomials and generalizations
 11B50 Sequences (mod m)
 11B57 Farey sequences; the sequences $\{1^k, 2^k, \dots\}$
 11B65 Binomial coefficients; factorials; q -identities [See also 05A10, 05A30]
 11B68 Bernoulli and Euler numbers and polynomials
 11B73 Bell and Stirling numbers
 11B75 Other combinatorial number theory
 11B83 Special sequences and polynomials
 11B85 Automata sequences
 11B99 None of the above, but in this section
11Cxx Polynomials and matrices
 11C08 Polynomials [See also 13F20]
 11C20 Matrices, determinants [See also 15A36]
 11C99 None of the above, but in this section
11Dxx Diophantine equations [See also 11Gxx, 14Gxx]
 11D04 Linear equations
 11D09 Quadratic and bilinear equations
 11D25 Cubic and quartic equations
 11D41 Higher degree equations; Fermat's equation
 11D57 Multiplicative and norm form equations
 11D61 Exponential equations
 11D68 Rational numbers as sums of fractions
 11D72 Equations in many variables [See also 11P55]
 11D75 Diophantine inequalities [See also 11J25]
 11D79 Congruences in many variables
 11D85 Representation problems [See also 11P55]
 11D88 p -adic and power series fields
 11D99 None of the above, but in this section
11Exx Forms and linear algebraic groups [See also 19Gxx] [For quadratic forms in linear algebra, see 15A63]
 11E04 Quadratic forms over general fields
 11E08 Quadratic forms over local rings and fields
 11E10 Forms over real fields
 11E12 Quadratic forms over global rings and fields
 11E16 General binary quadratic forms
 11E20 General ternary and quaternary quadratic forms; forms of more than two variables
 11E25 Sums of squares and representations by other particular quadratic forms
 11E39 Bilinear and Hermitian forms
 11E41 Class numbers of quadratic and Hermitian forms
 11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
 11E57 Classical groups [See also 14Lxx, 20Gxx]
 11E70 K -theory of quadratic and Hermitian forms
 11E72 Galois cohomology of linear algebraic groups [See also 20G10]
 11E76 Forms of degree higher than two
 11E81 Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24]
 11E88 Quadratic spaces; Clifford algebras [See also 15A63, 15A66]
 11E95 p -adic theory
 11E99 None of the above, but in this section
11Fxx Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]
 11F03 Modular and automorphic functions
 11F06 Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40]
 11F11 Modular forms, one variable
 11F12 Automorphic forms, one variable
 11F20 Dedekind eta function, Dedekind sums
 11F22 Relationship to Lie algebras and finite simple groups
 11F25 Hecke-Petersson operators, differential operators (one variable)
 11F27 Theta series; Weil representation
 11F30 Fourier coefficients of automorphic forms
 11F32 Modular correspondences, etc.
 11F33 Congruences for modular and p -adic modular forms [See also 14G20, 22E50]
 11F37 Forms of half-integer weight; nonholomorphic modular forms
 11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20]
 11F46 Siegel modular groups and their modular and automorphic forms
 11F55 Other groups and their modular and automorphic forms (several variables)
 11F60 Hecke-Petersson operators, differential operators (several variables)
 11F66 Dirichlet series and functional equations in connection with modular forms
 11F67 Special values of automorphic L -series, periods of modular forms, cohomology, modular symbols
 11F70 Representation-theoretic methods; automorphic representations over local and global fields
 11F72 Spectral theory; Selberg trace formula
 11F75 Cohomology of arithmetic groups
 11F80 Galois properties
 11F85 p -adic theory, local fields [See also 14G20, 22E50]
 11F99 None of the above, but in this section
11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx]
 11G05 Elliptic curves over global fields [See also 14H52]
 11G07 Elliptic curves over local fields [See also 14G20, 14H52]
 11G09 Drinfel'd modules; higher-dimensional motives, etc. [See also 14L05]
 11G10 Abelian varieties of dimension > 1 [See also 14Kxx]
 11G15 Complex multiplication and moduli of abelian varieties [See also 14K22]
 11G16 Elliptic and modular units [See also 11R27]
 11G18 Arithmetic aspects of modular and Shimura varieties [See also 14G35]
 11G20 Curves over finite and local fields [See also 14H25]
 11G25 Varieties over finite and local fields [See also 14G15, 14G20]
 11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [See also 14H25]
 11G35 Varieties over global fields [See also 14G25]
 11G40 L -functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [See also 14G10]
 11G45 Geometric class field theory [See also 11R37, 14C35, 19F05]
 11G99 None of the above, but in this section
11Hxx Geometry of numbers (For applications in coding theory, see 94B75)
 11H06 Lattices and convex bodies [See also 11P21, 52C05, 52C07]
 11H16 Nonconvex bodies
 11H31 Lattice packing and covering [See also 05B40, 52C15, 52C17]
 11H46 Products of linear forms
 11H50 Minima of forms
 11H55 Quadratic forms (reduction theory, extreme forms, etc.)
 11H56 Automorphism groups of lattices
 11H60 Mean value and transfer theorems
 11H99 None of the above, but in this section
11Jxx Diophantine approximation, transcendental number theory [See also 11K60]
 11J04 Homogeneous approximation to one number
 11J06 Markov and Lagrange spectra and generalizations
 11J13 Simultaneous homogeneous approximation, linear forms
 11J17 Approximation by numbers from a fixed field
 11J20 Inhomogeneous linear forms
 11J25 Diophantine inequalities [See also 11D75]
 11J54 Small fractional parts of polynomials and generalizations
 11J61 Approximation in non-Archimedean valuations
 11J68 Approximation to algebraic numbers
 11J70 Continued fractions and generalizations [See also 11A55, 11K50]
 11J71 Distribution modulo one [See also 11K06]
 11J72 Irrationality; linear independence over a field
 11J81 Transcendence (general theory)
 11J82 Measures of irrationality and of transcendence
 11J83 Metric theory
 11J85 Algebraic independence; Gel'fond's method
 11J86 Linear forms in logarithms; Baker's method
 11J89 Transcendence theory of elliptic and abelian functions
 11J91 Transcendence theory of other special functions
 11J99 None of the above, but in this section
11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms
 11K06 General theory of distribution modulo 1 [See also 11J71]
 11K16 Normal numbers, radix expansions, etc. [See also 11A63]
 11K31 Special sequences
 11K36 Well-distributed sequences and other variations
 11K38 Irregularities of distribution, discrepancy [See also 11Nxx]
 11K41 Continuous, p -adic and abstract analogues
 11K45 Pseudo-random numbers; Monte Carlo methods
 11K50 Metric theory of continued fractions [See also 11A55, 11J70]
 11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99, 28Dxx]
 11K60 Diophantine approximation [See also 11Jxx]
 11K65 Arithmetic functions [See also 11Nxx]

- 11K70 Harmonic analysis and almost periodicity
 11K99 None of the above, but in this section
 11Lxx **Exponential sums and character sums** {For finite fields, see 11Txx}
 11L03 Trigonometric and exponential sums, general
 11L05 Gauss and Kloosterman sums; generalizations
 11L07 Estimates on exponential sums
 11L10 Jacobsthal and Brewer sums; other complete character sums
 11L15 Weyl sums
 11L20 Sums over primes
 11L26 Sums over arbitrary intervals
 11L40 Estimates on character sums
 11L99 None of the above, but in this section
 11Mxx **Zeta and L-functions: analytic theory**
 11M06 $\zeta(s)$ and $L(s, \chi)$
 11M20 Real zeros of $L(s, \chi)$; results on $L(1, \chi)$
 11M26 Nonreal zeros of $\zeta(s)$ and $L(s, \chi)$; Riemann and other hypotheses
 11M35 Hurwitz and Lerch zeta functions
 11M36 Selberg zeta functions and regularized determinants
 11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72}
 11M45 Tauberian theorems {See also 40E05}
 11M99 None of the above, but in this section
 11Nxx **Multiplicative number theory**
 11N05 Distribution of primes
 11N13 Primes in progressions {See also 11B25}
 11N25 Distribution of integers with specified multiplicative constraints
 11N30 Turán theory {See also 30Bxx}
 11N32 Primes represented by polynomials; other multiplicative structure of polynomial values
 11N35 Sieves
 11N36 Applications of sieve methods
 11N37 Asymptotic results on arithmetic functions
 11N45 Asymptotic results on counting functions for algebraic and topological structures
 11N56 Rate of growth of arithmetic functions
 11N60 Distribution functions associated with additive and positive multiplicative functions
 11N64 Other results on the distribution of values or the characterization of arithmetic functions
 11N69 Distribution of integers in special residue classes
 11N75 Applications of automorphic functions and forms to multiplicative problems {See also 11Fxx}
 11N80 Generalized primes and integers
 11N99 None of the above, but in this section
 11Pxx **Additive number theory; partitions**
 11P05 Waring's problem and variants
 11P21 Lattice points in specified regions
 11P32 Goldbach-type theorems; other additive questions involving primes
 11P55 Applications of the Hardy-Littlewood method {See also 11D85}
 11P81 Elementary theory of partitions {See also 05A17}
 11P82 Analytic theory of partitions
 11P83 Partitions; congruences and congruential restrictions
 11P99 None of the above, but in this section
 11Rxx **Algebraic number theory: global fields** {For complex multiplication, see 11G15}
 11R04 Algebraic numbers; rings of algebraic integers
 11R06 PV-numbers and generalizations; other special algebraic numbers
 11R09 Polynomials (irreducibility, etc.)
 11R11 Quadratic extensions
 11R16 Cubic and quartic extensions
 11R18 Cyclotomic extensions
 11R20 Other abelian and metabelian extensions
 11R21 Other number fields
 11R23 Iwasawa theory
 11R27 Units and factorization
 11R29 Class numbers, class groups, discriminants
 11R32 Galois theory
 11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers {See also 20C10}
 11R34 Galois cohomology {See also 12Gxx, 16H05, 19A31}
 11R37 Class field theory
 11R39 Langlands-Weil conjectures, nonabelian class field theory {See also 11Fxx, 22E55}
 11R42 Zeta functions and L-functions of number fields {See also 11M41, 19F27}
 11R44 Distribution of prime ideals {See also 11N05}
 11R45 Density theorems
 11R47 Other analytic theory {See also 11Nxx}
 11R52 Quaternion and other division algebras: arithmetic, zeta functions
 11R54 Other algebras and orders, and their zeta and L-functions {See also 11S45, 16H05, 16Kxx}
 11R56 Adèle rings and groups
 11R58 Arithmetic theory of algebraic function fields {See also 14-XX}
 11R65 Class groups and Picard groups of orders
 11R70 K-theory of global fields {See also 19Fxx}
 11R80 Totally real and totally positive fields {See also 12J15}
 11R99 None of the above, but in this section
 11Sxx **Algebraic number theory: local and p-adic fields**
 11S05 Polynomials
 11S15 Ramification and extension theory
 11S20 Galois theory
 11S23 Integral representations
 11S25 Galois cohomology {See also 12Gxx, 16H05}
 11S31 Class field theory; p-adic formal groups {See also 14L05}
 11S37 Langlands-Weil conjectures, nonabelian class field theory {See also 11Fxx, 22E50}
 11S40 Zeta functions and L-functions {See also 11M41, 19F27}
 11S45 Algebras and orders, and their zeta functions {See also 11R52, 11R54, 16H05, 16Kxx}
 11S70 K-theory of local fields {See also 19Fxx}
 11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)
 11S85 Other nonanalytic theory
 11S99 None of the above, but in this section
 11Txx **Finite fields and commutative rings (number-theoretic aspects)**
 11T06 Polynomials
 11T22 Cyclotomy
 11T23 Exponential sums
 11T24 Other character sums and Gauss sums
 11T30 Structure theory
 11T55 Arithmetic theory of polynomial rings over finite fields
 11T71 Algebraic coding theory; cryptography
 11T99 None of the above, but in this section
 11Uxx **Connections with logic**
 11U05 Decidability {See also 03B25}
 11U07 Ultraproducts {See also 03C20}
 11U09 Model theory {See also 03Cxx}
 11U10 Nonstandard arithmetic {See also 03H15}
 11U99 None of the above, but in this section
 11Yxx **Computational number theory** {See also 11-04}
 11Y05 Factorization
 11Y11 Primality
 11Y16 Algorithms; complexity {See also 68Q25}
 11Y35 Analytic computations
 11Y40 Algebraic number theory computations
 11Y50 Computer solution of Diophantine equations
 11Y55 Calculation of integer sequences
 11Y60 Evaluation of constants
 11Y65 Continued fraction calculations
 11Y70 Values of arithmetic functions; tables
 11Y99 None of the above, but in this section
 11Z05 **Miscellaneous applications of number theory**
 12-XX **FIELD THEORY AND POLYNOMIALS**
 12-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 12-01 Instructional exposition (textbooks, tutorial papers, etc.)
 12-02 Research exposition (monographs, survey articles)
 12-03 Historical (must also be assigned at least one classification number from Section 01)
 12-04 Explicit machine computation and programs (not the theory of computation or programming)
 12-06 Proceedings, conferences, collections, etc.
 12Dxx **Real and complex fields**
 12D05 Polynomials: factorization
 12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15}
 12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) {See also 11Exx}
 12D99 None of the above, but in this section
 12Exx **General field theory**
 12E05 Polynomials (irreducibility, etc.)
 12E10 Special polynomials
 12E12 Equations
 12E15 Skew fields, division rings {See also 11R52, 11R54, 11S45, 16Kxx}
 12E20 Finite fields (field-theoretic aspects)
 12E25 Hilbertian fields; Hilbert's irreducibility theorem
 12E99 None of the above, but in this section
 12Fxx **Field extensions**
 12F05 Algebraic extensions
 12F10 Separable extensions, Galois theory
 12F12 Inverse Galois theory
 12F15 Inseparable extensions
 12F20 Transcendental extensions
 12F99 None of the above, but in this section

- 12Gxx Homological methods (in field theory)**
 12G05 Galois cohomology [See also 13A20, 16H05]
 12G10 Cohomological dimension
 12G99 None of the above, but in this section
- 12Hxx Differential and difference algebra**
 12H05 Differential algebra [See also 13Nxx]
 12H10 Difference algebra [See also 39Axx]
 12H20 Abstract differential equations [See also 34Gxx]
 12H25 p -adic differential equations [See also 11S80, 14G20, 34Gxx]
 12H99 None of the above, but in this section
- 12Jxx Topological fields**
 12J05 Normed fields
 12J10 Valued fields
 12J12 Formally p -adic fields
 12J15 Ordered fields
 12J17 Topological semifields
 12J20 General valuation theory
 12J25 Non-Archimedean valued fields [See also 30G06, 32P05, 46S10, 47S10]
 12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]
 12J99 None of the above, but in this section
- 12Kxx Generalizations of fields**
 12K05 Near-fields [See also 16Y30]
 12K10 Semifields [See also 16Y60]
 12K99 None of the above, but in this section
- 12Lxx Connections with logic**
 12L05 Decidability [See also 03B25]
 12L10 Ultraproducts [See also 03C20]
 12L12 Model theory [See also 03C60]
 12L15 Nonstandard arithmetic [See also 03H15]
 12L99 None of the above, but in this section
- 12Y05 Computational aspects of field theory and polynomials**
- 13-XX COMMUTATIVE RINGS AND ALGEBRAS**
 13-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 13-01 Instructional exposition (textbooks, tutorial papers, etc.)
 13-02 Research exposition (monographs, survey articles)
 13-03 Historical (must also be assigned at least one classification number from Section 01)
 13-04 Explicit machine computation and programs (not the theory of computation or programming)
 13-06 Proceedings, conferences, collections, etc.
- 13Axx General commutative ring theory**
 13A02 Graded rings [See also 16W50]
 13A05 Divisibility
 13A10 Radical theory
 13A15 Ideals; multiplicative ideal theory
 13A18 Valuations and their generalizations
 13A20 Brauer groups [See also 12Gxx, 16H05]
 13A30 Associated graded rings of ideals (Rees ring, form ring) and related topics
 13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p [See also 13Mxx]
 13A50 Invariant theory [See also 14D25]
 13A99 None of the above, but in this section
- 13Bxx Ring extensions and related topics**
 13B02 Extension theory
 13B05 Galois theory (commutative rings)
 13B10 Morphisms and derivations
 13B15 Ramification theory
 13B21 Integral dependence
 13B22 Integral closure; integrally closed rings, related rings (Japanese, etc.)
 13B24 Going up; going down; going between
 13B25 Polynomials over commutative rings
 13B30 Quotients and localization
 13B35 Completion [See also 13J10]
 13B40 Étale extensions and Henselization; Artin approximation [See also 13J15, 14B12]
 13B99 None of the above, but in this section
- 13Cxx Theory of modules and ideals**
 13C05 Structure, classification theorems
 13C10 Projective and free modules and ideals [See also 18G05, 19A13]
 13C11 Injective and flat modules and ideals [See also 18G05]
 13C12 Torsion modules and ideals
 13C13 Other special types
 13C14 Cohen-Macaulay modules [See also 13H10]
 13C15 Dimension theory, depth, related rings (catenary, etc.)
 13C20 Class groups
 13C40 Linkage, complete intersections and determinantal ideals [See also 14M12]
 13C99 None of the above, but in this section
- 13Dxx (Co)homological methods**
 13D02 Syzygies
 13D03 (Co)homology of commutative rings and algebras
 13D05 (Co)homological dimension [See also 18G20]
 13D10 Deformations and infinitesimal methods [See also 14B12, 14D15, 16S80, 32Gxx]
 13D15 Grothendieck groups, K -theory [See also 14C35, 18F30, 19-XX]
 13D25 Complexes
 13D30 Torsion theory [See also 13C12, 18E40]
 13D40 Hilbert-Samuel functions and Poincaré series
 13D45 Local cohomology [See also 14B15]
 13D99 None of the above, but in this section
- 13Exx Chain conditions, finiteness conditions**
 13E05 Noetherian rings and modules
 13E10 Artinian rings and modules, finite-dimensional algebras
 13E15 Rings and modules of finite generation or presentation
 13E99 None of the above, but in this section
- 13Fxx Arithmetic rings and other special rings [See also 12-XX]**
 13F05 Dedekind and Prüfer rings and their generalizations
 13F07 Euclidean rings and generalizations
 13F10 Principal ideal rings
 13F15 Factorial rings, unique factorization domains [See also 14M05]
 13F20 Polynomial rings and ideals [See also 11C08]
 13F25 Formal power series rings [See also 13J05]
 13F30 Valuation rings
 13F40 Excellent rings
 13F45 Seminormal rings
 13F50 Rings with straightening laws, Hodge algebras
 13F99 None of the above, but in this section
- 13G05 Integral domains**
13Hxx Local rings and semilocal rings
 13H05 Regular local rings
 13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [See also 14M05]
 13H15 Multiplicity theory and related topics
 13H99 None of the above, but in this section
- 13Jxx Topological rings and modules [See also 16W60, 16W80]**
 13J05 Power series rings [See also 13F25]
 13J07 Analytical algebras and rings [See also 32B05]
 13J10 Complete rings, completion [See also 13B35]
 13J15 Henselian rings [See also 13B40]
 13J20 Global topological rings
 13J25 Ordered rings [See also 06F25]
 13J99 None of the above, but in this section
- 13K05 Witt vectors and related rings**
13L05 Applications of logic to commutative algebra [See also 03Cxx, 03Hxx]
13Mxx Finite commutative rings [For number-theoretic aspects, see 11Txx]
 13M05 Structure
 13M10 Polynomials (commutative rings)
 13M99 None of the above, but in this section
- 13Nxx Differential algebra [See also 12H05, 14F10]**
 13N05 Modules of differentials [See also 16S32]
 13N10 Rings of differential operators [See also 16S32, 32C38]
 13N99 None of the above, but in this section
- 13Pxx Computational aspects of commutative algebra [See also 68Q40]**
 13P05 Polynomials, factorization [See also 12Y05]
 13P10 Polynomial ideals, Gröbner bases
 13P99 None of the above, but in this section
- 14-XX ALGEBRAIC GEOMETRY**
 14-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 14-01 Instructional exposition (textbooks, tutorial papers, etc.)
 14-02 Research exposition (monographs, survey articles)
 14-03 Historical (must also be assigned at least one classification number from Section 01)
 14-04 Explicit machine computation and programs (not the theory of computation or programming)
 14-06 Proceedings, conferences, collections, etc.
- 14Axx Foundations**
 14A05 Relevant commutative algebra [See also 13-XX]
 14A10 Varieties
 14A15 Schemes
 14A20 Generalizations (algebraic spaces, motifs)
 14A22 Noncommutative algebraic geometry; algebraic supervarieties [See also 14M30, 32C11, 58A50]
 14A25 Elementary questions
 14A99 None of the above, but in this section
- 14Bxx Local theory [See also 32Sxx]**
 14B05 Singularities [See also 14E15, 14H20, 32Sxx, 58C27]
 14B07 Deformations of singularities [See also 14D15, 32Sxx]
 14B10 Infinitesimal methods [See also 13D10]

- 14B12 Local deformation theory, Artin approximation, etc. [See also 13B40, 13D10]
- 14B15 Local cohomology [See also 13D45, 32C36]
- 14B20 Formal neighborhoods
- 14B99 None of the above, but in this section
- 14Cxx Cycles and subschemes**
- 14C05 Parametrization (Chow and Hilbert schemes)
- 14C10 Equivalence relations
- 14C15 Rational equivalence rings
- 14C17 Intersection theory
- 14C20 Divisors, linear systems, invertible sheaves
- 14C21 Pencils, nets, webs [See also 53A60]
- 14C22 Picard groups
- 14C25 Algebraic cycles
- 14C30 Transcendental methods, Hodge theory [See also 14D07, 32G20, 32J25, 32S35], Hodge conjecture
- 14C34 Torelli problem [See also 32G20]
- 14C35 Applications of methods of algebraic K -theory [See also 14F05, 19Exx]
- 14C40 Riemann-Roch theorems [See also 19E20, 19L10]
- 14C99 None of the above, but in this section
- 14Dxx Families, fibrations**
- 14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)
- 14D07 Variation of Hodge structures
- 14D10 Arithmetic ground fields (finite, local, global)
- 14D15 Formal methods; deformations [See also 13D10, 14B07, 16S80, 32Gxx]
- 14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13}
- 14D22 Fine and coarse moduli spaces
- 14D25 Geometric invariants [See also 14L30]
- 14D99 None of the above, but in this section
- 14Exx Mappings and correspondences**
- 14E05 Rational maps, birational correspondences
- 14E07 Birational automorphisms, Cremona group and generalizations [See also 32G20]
- 14E09 Automorphisms [See also 14J50, 14L27]
- 14E10 General correspondences
- 14E15 Global theory of singularities, resolution [See also 14B05, 32S20, 32S45]
- 14E20 Coverings, fundamental group (mappings)
- 14E22 Ramification problems [See also 11S15]
- 14E25 Embeddings
- 14E30 Minimal models
- 14E35 Results in dimension ≤ 3
- 14E40 Local structure of maps: étale, flat, etc. [See also 13-XX, 14F20]
- 14E99 None of the above, but in this section
- 14Fxx (Co)homology theory [See also 13Dxx]**
- 14F05 Vector bundles, sheaves, related construction [See also 18F20, 32Lxx, 46M20]
- 14F10 Differentials and other special sheaves [See also 32C38]
- 14F17 Vanishing theorems [See also 32L20]
- 14F20 Étale and other Grothendieck topologies and cohomologies
- 14F25 Classical real and complex cohomology
- 14F30 p -adic cohomology, crystalline cohomology
- 14F32 Intersection (co)homology [See also 32S60]
- 14F35 Homotopy theory; fundamental groups [See also 14E20, 14H30]
- 14F40 de Rham cohomology [See also 14C30, 32C35, 32L10]
- 14F45 Topological properties
- 14F99 None of the above, but in this section
- 14Gxx Arithmetic problems. Diophantine geometry [See also 11Dxx, 11Gxx]**
- 14G05 Rationality questions, rational points
- 14G10 Zeta-functions and related questions [See also 11G40] (Birch-Swinnerton-Dyer conjecture)
- 14G15 Finite ground fields
- 14G20 p -adic ground fields
- 14G25 Global ground fields
- 14G27 Nonalgebraically closed ground fields
- 14G35 Modular and Shimura varieties [See also 11F41, 11F46, 11G18]
- 14G40 Arithmetic varieties and schemes; Arakelov theory
- 14G99 None of the above, but in this section
- 14Hxx Curves**
- 14H05 Algebraic functions; function fields [See also 11R58]
- 14H10 Families, moduli (algebraic)
- 14H15 Families, moduli (analytic) [See also 30F10, 32Gxx]
- 14H20 Singularities, local rings [See also 13Hxx]
- 14H25 Arithmetic ground fields [See also 11Dxx, 11G05, 14Gxx]
- 14H30 Coverings, fundamental group [See also 14E20, 14F35]
- 14H35 Correspondences [See also 14Exx]
- 14H40 Jacobians [See also 32G20]
- 14H42 Theta functions; Schottky problem [See also 14K25, 32G20]
- 14H45 Special curves and curves of low genus
- 14H50 Space curves
- 14H52 Elliptic curves [See also 11G05, 11G07, 14Kxx]
- 14H55 Riemann surfaces; Weierstrass points; gap sequences [See also 30Fxx]
- 14H60 Vector bundles on curves [See also 14F05]
- 14H99 None of the above, but in this section
- 14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx}**
- 14J05 Picard group [See also 14C22, 19A49, 32L05]
- 14J10 Families, moduli, classification: algebraic theory
- 14J15 Moduli, classification: analytic theory [See also 32G13, 32J15]
- 14J17 Singularities of surfaces
- 14J20 Arithmetic ground fields [See also 11Dxx, 11G25, 11G35, 14Gxx]
- 14J25 Special surfaces {For Hilbert modular surfaces, see 14G35}
- 14J26 Rational and ruled surfaces
- 14J27 Elliptic surfaces
- 14J28 $K3$ surfaces and Enriques surfaces
- 14J29 Surfaces of general type
- 14J30 Special 3-folds [See also 14E05]
- 14J32 Calabi-Yau manifolds
- 14J35 Special 4-folds [See also 14E05]
- 14J40 Special n -folds
- 14J45 Fano varieties
- 14J50 Automorphisms of surfaces and higher-dimensional varieties [See also 14E09]
- 14J60 Vector bundles on surfaces and higher-dimensional varieties [See also 14F05, 32Lxx]
- 14J70 Hypersurfaces
- 14J99 None of the above, but in this section
- 14Kxx Abelian varieties and schemes**
- 14K02 Isogeny
- 14K05 Algebraic theory
- 14K10 Algebraic moduli, classification
- 14K15 Arithmetic ground fields [See also 11Dxx, 11Fxx, 11Gxx, 14Gxx]
- 14K20 Analytic theory; abelian integrals and differentials
- 14K22 Complex multiplication [See also 11G15]
- 14K25 Theta functions
- 14K30 Picard schemes, higher Jacobians [See also 14H40, 32G20]
- 14K99 None of the above, but in this section
- 14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45}**
- 14L05 Formal groups, p -divisible groups [See also 55N22]
- 14L10 Group varieties
- 14L15 Group schemes
- 14L17 Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35]
- 14L27 Automorphism groups [See also 14E09]
- 14L30 Group actions on varieties or schemes (quotients) [See also 14D25]
- 14L35 Classical groups (geometric aspects) [See also 20Gxx, 51N30]
- 14L40 Other algebraic groups (geometric aspects)
- 14L99 None of the above, but in this section
- 14Mxx Special varieties**
- 14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [See also 13C14, 13F45, 13H10]
- 14M06 Linkage [See also 13C40]
- 14M07 Low-codimension problems [See also 14Cxx]
- 14M10 Complete intersections [See also 13C40]
- 14M12 Determinantal varieties [See also 13C40]
- 14M15 Grassmannians, Schubert varieties, flag manifolds [See also 32M10, 51M35]
- 14M17 Homogeneous spaces and generalizations [See also 32M10, 53C30, 57T15]
- 14M20 Rational varieties
- 14M25 Toric varieties, Newton polyhedra
- 14M30 Supervarieties [See also 14A22, 32C11, 58A50]
- 14M99 None of the above, but in this section
- 14Nxx Classical methods and problems [See also 51-XX]**
- 14N05 Projective techniques [See also 51N35]
- 14N10 Enumerative problems (combinatorial problems)
- 14N99 None of the above, but in this section
- 14Pxx Real algebraic and real analytic geometry**
- 14P05 Real algebraic sets [See also 12Dxx]
- 14P10 Semialgebraic sets and related spaces
- 14P15 Real analytic and semianalytic sets [See also 32B20, 32C05]
- 14P20 Nash functions and manifolds [See also 32C07, 58A07]
- 14P25 Topology of real algebraic varieties
- 14P99 None of the above, but in this section
- 14Qxx Computational aspects in algebraic geometry [See also 12-04, 68Q40]**
- 14Q05 Curves
- 14Q10 Surfaces, hypersurfaces
- 14Q15 Higher-dimensional varieties
- 14Q20 Effectivity
- 14Q99 None of the above, but in this section

16Wxx Rings and algebras with additional structure

16W10 Rings with involution; Lie, Jordan and other nonassociative structures [See also 17B60, 17C50, 46Kxx]

16W20 Automorphisms and endomorphisms, actions of groups and semigroups and their fixed rings

16W25 Derivations, actions of Lie algebras

16W30 Coalgebras, bialgebras, Hopf algebras [See also 57T05, 16S30–16S40]; rings, modules, etc. on which these act

16W50 Graded rings and modules

16W55 "Super" (or "skew") structure [See also 17A70, 17B70, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66}

16W60 Filtrations and valuations, generalizations of Euclidean algorithm, completions, formal power series and related constructions [See also 13Jxx]

16W80 Topological and ordered rings and modules [See also 13Jxx]

16W99 None of the above, but in this section

16Yxx Generalizations {For nonassociative rings, see 17–xx}

16Y30 Near-rings [See also 12K05]

16Y60 Semirings [See also 12K10]

16Y99 None of the above, but in this section

17–XX NONASSOCIATIVE RINGS AND ALGEBRAS

17–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

17–01 Instructional exposition (textbooks, tutorial papers, etc.)

17–02 Research exposition (monographs, survey articles)

17–03 Historical (must also be assigned at least one classification number from Section 01)

17–04 Explicit machine computation and programs (not the theory of computation or programming)

17–06 Proceedings, conferences, collections, etc.

17–08 Computational methods

17Axx General nonassociative rings

17A01 General theory

17A05 Power-associative

17A10 Commutative power-associative

17A15 Noncommutative Jordan algebras

17A20 Flexible algebras

17A25 Nodal algebras

17A30 Algebras satisfying other identities

17A35 Division algebras

17A36 Automorphisms, derivations, other operators

17A40 Ternary compositions

17A42 Other n -ary compositions

17A45 Quadratic algebras (but not quadratic Jordan algebras)

17A50 Free algebras

17A60 Structure theory

17A65 Radical theory

17A70 Superalgebras

17A75 Composition algebras

17A80 Valued algebras

17A99 None of the above, but in this section

17Bxx Lie algebras and Lie superalgebras {For Lie groups, see 22Exx}

17B01 Identities, free Lie algebras

17B05 Structure theory

17B10 Representations, algebraic theory (weights)

17B15 Representations, analytic theory

17B20 Simple, semisimple, reductive algebras (roots)

17B25 Exceptional algebras

17B30 Solvable, nilpotent algebras

17B35 Universal enveloping algebras [See also 16S30]

17B37 Quantum groups and related deformations [See also 16W30, 81R50, 82B23]

17B40 Automorphisms, derivations, other operators

17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx]

17B50 Modular Lie algebras

17B55 Homological methods in Lie algebras and superalgebras

17B56 Cohomology of Lie algebras and superalgebras

17B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16W10, 17C40, 17C50]

17B65 Infinite-dimensional Lie algebras and superalgebras [See also 22E65]

17B66 Lie algebras of vector fields and related algebras

17B67 Kac-Moody algebras (structure and representation theory)

17B68 Virasoro and related algebras

17B69 Vertex operators

17B70 Graded Lie algebras

17B81 Applications to physics

17B99 None of the above, but in this section

17Cxx Jordan algebras (algebras, triples and pairs)

17C05 Identities and free Jordan structures

17C10 Structure theory

17C17 Radicals

17C20 Simple, semisimple algebras

17C27 Idempotents, Peirce decompositions

17C30 Associated groups, automorphisms

17C36 Associated manifolds

17C37 Associated geometries

17C40 Exceptional Jordan structures

17C50 Jordan structures associated with other structures [See also 16W10]

17C55 Finite-dimensional structures

17C60 Division algebras

17C65 Jordan structures on Banach spaces and algebras [See also 46H70, 46L70]

17C70 Super structures

17C90 Applications to physics

17C99 None of the above, but in this section

17Dxx Other nonassociative rings and algebras

17D05 Alternative rings

17D10 Mal'cev (Mal'tsev) rings and algebras

17D15 Right alternative rings

17D20 (γ, δ) -rings, including $(1, -1)$ -rings

17D25 Lie-admissible algebras

17D92 Genetic algebras

17D99 None of the above, but in this section

18–XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA

18–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

18–01 Instructional exposition (textbooks, tutorial papers, etc.)

18–02 Research exposition (monographs, survey articles)

18–03 Historical (must also be assigned at least one classification number from Section 01)

18–04 Explicit machine computation and programs (not the theory of computation or programming)

18–06 Proceedings, conferences, collections, etc.

18Axx General theory of categories and functors

18A05 Definitions, generalizations

18A10 Graphs, diagram schemes, precategories, neocategories [See also 20Lxx]

18A15 Foundations, relations to logic and deductive systems [See also 03–XX]

18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)

18A22 Special properties of functors (faithful, full, etc.)

18A23 Natural morphisms, dinatural morphisms

18A25 Functor categories, comma categories

18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions

18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)

18A99 None of the above, but in this section

18Bxx Special categories

18B05 Category of sets, characterizations [See also 03–XX]

18B10 Category of relations, additive relations

18B15 Embedding theorems, universal categories [See also 18E20]

18B20 Categories of machines, automata, operative categories [See also 03D05, 68Qxx]

18B25 Topoi [See also 03G30]

18B30 Categories of topological spaces and continuous mappings [See also 54–XX]

18B35 Preorders, orders and lattices (viewed as categories) [See also 06–XX]

18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20Lxx, 20Mxx]

18B99 None of the above, but in this section

18Cxx Categories and algebraic theories

18C05 Equational categories [See also 03C05, 08C05]

18C10 Theories (e.g. algebraic theories), structure, and semantics [See also 03G30]

18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx]

18C20 Algebras and Kleisli categories associated with monads

18C99 None of the above, but in this section

18Dxx Categories with structure

18D05 Double categories, 2-categories, bicategories, hypercategories

18D10 Monoidal categories (= multiplicative categories) [See also 19D23]

18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)

18D20 Enriched categories (over closed or monoidal categories)

18D25 Strong functors, strong adjunctions

18D30 Fibered categories

- 18D35 Structured objects in a category (group objects, etc.)
 18D99 None of the above, but in this section
18Exx Abelian categories
 18E05 Preadditive, additive categories
 18E10 Exact categories, abelian categories
 18E15 Grothendieck categories
 18E20 Embedding theorems [See also 18B15]
 18E25 Derived functors and satellites
 18E30 Derived categories, triangulated categories
 18E35 Localization of categories
 18E40 Torsion theories, radicals [See also 13D30, 16S90]
 18E99 None of the above, but in this section
18Fxx Categories and geometry
 18F05 Local categories and functors
 18F10 Grothendieck topologies [See also 14F20]
 18F15 Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx]
 18F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30]
 18F25 Algebraic K -theory and L -theory [See also 11Exx, 11R70, 11S70, 12-XX, 13D15, 14Cxx, 16E20, 19-XX, 46L80, 57R65, 57R67]
 18F30 Grothendieck groups [See also 13D15, 16E20, 19Axx]
 18F99 None of the above, but in this section
18Gxx Homological algebra [See also 13Dxx, 16Exx, 55Uxx]
 18G05 Projectives and injectives [See also 13C10, 13C11, 16D40, 16D50]
 18G10 Resolutions; derived functors [See also 18E25]
 18G15 Ext and Tor, generalizations, Künneth formula [See also 55U25]
 18G20 Homological dimension [See also 13D05, 16E10]
 18G25 Relative homological algebra, projective classes
 18G30 Simplicial sets, simplicial objects (in a category) [See also 55U10]
 18G35 Chain complexes [See also 18E30, 55U15]
 18G40 Spectral sequences, hypercohomology [See also 55Txx]
 18G50 Nonabelian homological algebra
 18G55 Nonabelian homotopical algebra
 18G60 Other (co)homology theories (cyclic, dihedral, etc.) [See also 19D55, 46L80, 58B30, 58G12]
 18G99 None of the above, but in this section
19-XX K-THEORY [See also 16E20, 18F25]
 19-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 19-01 Instructional exposition (textbooks, tutorial papers, etc.)
 19-02 Research exposition (monographs, survey articles)
 19-03 Historical (must also be assigned at least one classification number from Section 01)
 19-04 Explicit machine computation and programs (not the theory of computation or programming)
 19-06 Proceedings, conferences, collections, etc.
19Axx Grothendieck groups and K_0 [See also 13D15, 18F30]
 19A13 Stability for projective modules [See also 13C10]
 19A15 Efficient generation
 19A22 Frobenius induction, Burnside and representation rings
 19A31 K_0 of group rings and orders
 19A49 K_0 of other rings
 19A99 None of the above, but in this section
19Bxx Whitehead groups and K_1
 19B10 Stable range conditions
 19B14 Stability for linear groups
 19B28 K_1 of group rings and orders [See also 57Q10]
 19B37 Congruence subgroup problems [See also 20H05]
 19B99 None of the above, but in this section
19Cxx Steinberg groups and K_2
 19C09 Central extensions and Schur multipliers
 19C20 Symbols, presentations and stability of K_2
 19C30 K_2 and the Brauer group
 19C40 Excision for K_2
 19C99 None of the above, but in this section
19Dxx Higher algebraic K -theory
 19D06 Q - and plus-constructions
 19D10 Algebraic K -theory of spaces
 19D23 Symmetric monoidal categories [See also 18D10]
 19D25 Karoubi-Villamayor-Gersten K -theory
 19D35 Negative K -theory, NK and Nil
 19D45 Higher symbols, Milnor K -theory
 19D50 Computations of higher K -theory of rings [See also 13D15, 16E20]
 19D55 K -theory and homology; cyclic homology and cohomology [See also 18G60]
 19D99 None of the above, but in this section
19Exx K -theory in geometry
 19E08 K -theory of schemes [See also 14C35]
 19E15 Algebraic cycles [See also 14C25, 14C35]
 19E20 Relations with cohomology theories [See also 14Fxx]
 19E99 None of the above, but in this section

- 19Fxx K -theory in number theory** [See also 11R70, 11S70]
 19F05 Generalized class field theory [See also 11G45]
 19F15 Symbols and arithmetic [See also 11R37]
 19F27 Étale cohomology, higher regulators, zeta and L -functions [See also 11G40, 11R42, 11S40, 14F20, 14G10]
 19F99 None of the above, but in this section
19Gxx K -theory of forms [See also 11Exx]
 19G05 Stability for quadratic modules
 19G12 Witt groups of rings [See also 11E81]
 19G24 L -theory of group rings [See also 11E81]
 19G38 Hermitian K -theory, relations with K -theory of rings
 19G99 None of the above, but in this section
19Jxx Obstructions from topology
 19J05 Finiteness and other obstructions in K_0
 19J10 Whitehead (and related) torsion
 19J25 Surgery obstructions [See also 57R67]
 19J35 Obstructions to group actions
 19J99 None of the above, but in this section
19Kxx K -theory and operator algebras [See mainly 46L80, and also 46M20]
 19K14 K_0 as an ordered group, traces
 19K33 EXT and K -homology [See also 55N22]
 19K35 Kasparov theory (KK -theory) [See also 58G12]
 19K56 Index theory [See also 58G12]
 19K99 None of the above, but in this section
19Lxx Topological K -theory [See also 55N15, 55R50, 55S25]
 19L10 Riemann-Roch theorems, Chern characters
 19L20 J -homomorphism, Adams operations [See also 55Q50]
 19L41 Connective K -theory, cobordism [See also 55N22]
 19L47 Equivariant K -theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91]
 19L64 Computations, geometric applications
 19L99 None of the above, but in this section
19M05 Miscellaneous applications of K -theory
20-XX GROUP THEORY AND GENERALIZATIONS
 20-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 20-01 Instructional exposition (textbooks, tutorial papers, etc.)
 20-02 Research exposition (monographs, survey articles)
 20-03 Historical (must also be assigned at least one classification number from Section 01)
 20-04 Explicit machine computation and programs (not the theory of computation or programming)
 20-06 Proceedings, conferences, collections, etc.
20Axx Foundations
 20A05 Axiomatics and elementary properties
 20A10 Metamathematical considerations {For word problems, see 20F10}
 20A15 Applications of logic to group theory
 20A99 None of the above, but in this section
20Bxx Permutation groups
 20B05 General theory for finite groups
 20B07 General theory for infinite groups
 20B10 Characterization theorems
 20B15 Primitive groups
 20B20 Multiply transitive finite groups
 20B22 Multiply transitive infinite groups
 20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51-XX]
 20B27 Infinite automorphism groups [See also 12F10]
 20B30 Symmetric groups
 20B35 Subgroups of symmetric groups
 20B40 Computational methods
 20B99 None of the above, but in this section
20Cxx Representation theory of groups [See also 19A22 (for representation rings and Burnside rings)]
 20C05 Group rings of finite groups and their modules [See also 16S34]
 20C07 Group rings of infinite groups and their modules [See also 16S34]
 20C10 Integral representations of finite groups
 20C11 p -adic representations of finite groups
 20C12 Integral representations of infinite groups
 20C15 Ordinary representations and characters
 20C20 Modular representations and characters
 20C25 Projective representations and multipliers
 20C30 Representations of finite symmetric groups
 20C32 Representations of infinite symmetric groups
 20C33 Representations of finite groups of Lie type
 20C34 Representations of sporadic groups
 20C35 Applications of group representations to physics
 20C40 Computational methods
 20C99 None of the above, but in this section
20Dxx Abstract finite groups
 20D05 Classification of simple and nonsolvable groups
 20D06 Simple groups: alternating groups and groups of Lie type [See also 20Gxx, 22Exx]

- 20D08 Simple groups; sporadic groups
 20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π -length, ranks [See also 20F17]
 20D15 Nilpotent groups, p -groups
 20D20 Sylow subgroups, Sylow properties, π -groups, π -structure
 20D25 Special subgroups (Frattini, Fitting, etc.)
 20D30 Series and lattices of subgroups
 20D35 Subnormal subgroups
 20D40 Products of subgroups
 20D45 Automorphisms
 20D50 Covering of subgroups
 20D60 Arithmetic and combinatorial problems
 20D99 None of the above, but in this section
20Exx Structure and classification of infinite or finite groups
 20E05 Free nonabelian groups
 20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
 20E07 Subgroup theorems
 20E08 Groups acting on trees
 20E10 Quasivarieties and varieties of groups
 20E15 Chains and lattices of subgroups, subnormal subgroups [See also 20F22]
 20E18 Limits, profinite groups
 20E22 Extensions, wreath products, and other compositions [See also 20J05]
 20E25 Local properties
 20E26 Residual properties and generalizations
 20E28 Maximal subgroups
 20E32 Simple groups [See also 20D05]
 20E34 General structure theorems
 20E36 General theorems concerning automorphisms of groups
 20E42 Groups with a BN -pair; buildings [See also 51E24]
 20E99 None of the above, but in this section
20Fxx Special aspects of infinite or finite groups
 20F05 Generators, relations, and presentations
 20F06 Cancellation theory; application of van Kampen diagrams [See also 57M05]
 20F10 Word problems, other decision problems, connections with logic and automata [See also 03B25, 03D05, 03D40, 06B25, 08A50, 68Qxx]
 20F12 Commutator calculus
 20F14 Derived series, central series, and generalizations
 20F16 Solvable groups, supersolvable groups
 20F17 Formations of groups, Fitting classes [See also 20D10]
 20F18 Nilpotent groups
 20F19 Generalizations of solvable and nilpotent groups
 20F22 Other classes of groups defined by subgroup chains
 20F24 FC-groups and their generalizations
 20F28 Automorphism groups of groups [See also 20E36]
 20F29 Representations of groups as automorphism groups of algebraic systems
 20F32 Geometric group theory [See also 05C25, 20Exx, 20Gxx]
 20F34 Fundamental groups and their automorphisms [See also 57M05, 57Sxx, 22E40]
 20F36 Braid groups; Artin groups
 20F38 Other groups related to topology or analysis
 20F40 Associated Lie structures
 20F45 Engel conditions
 20F50 Periodic groups; locally finite groups
 20F55 Coxeter groups [See also 22E40]
 20F60 Ordered groups [See mainly 06F15]
 20F99 None of the above, but in this section
20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55}
 20G05 Representation theory
 20G10 Cohomology theory
 20G15 Linear algebraic groups over arbitrary fields
 20G20 Linear algebraic groups over the reals, the complexes, the quaternions
 20G25 Linear algebraic groups over local fields and their integers
 20G30 Linear algebraic groups over global fields and their integers
 20G35 Linear algebraic groups over adèles and other rings and schemes
 20G40 Linear algebraic groups over finite fields
 20G45 Applications to physics; explicit representations
 20G99 None of the above, but in this section
20Hxx Other groups of matrices [See also 15A30]
 20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20]
 20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx]
 20H15 Other geometric groups, including crystallographic groups [See also 51-XX, especially 51F15, and 82D25]
 20H20 Other matrix groups over fields
 20H25 Other matrix groups over rings
 20H30 Other matrix groups over finite fields
 20H99 None of the above, but in this section
20Jxx Connections with homological algebra and category theory
 20J05 Homological methods in group theory
 20J06 Cohomology of finite groups
 20J10 Groups arising as cohomology groups
 20J15 Category of groups
 20J99 None of the above, but in this section
20Kxx Abelian groups
 20K01 Finite abelian groups
 20K05 Finitely generated groups
 20K10 Torsion groups, primary groups and generalized primary groups
 20K12 Ulm sequences
 20K15 Torsion free groups, finite rank
 20K20 Torsion free groups, infinite rank
 20K21 Mixed groups
 20K25 Direct sums, direct products, etc.
 20K26 Indecomposable groups
 20K27 Subgroups
 20K30 Automorphisms, homomorphisms, endomorphisms, etc.
 20K35 Extensions
 20K40 Homological and categorical methods
 20K45 Topological methods [See also 22A05, 22B05]
 20K99 None of the above, but in this section
20Lxx Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05}
 20L05 General theory
 20L10 Connections with group theory
 20L13 Mappings of groupoids
 20L15 Connections with topology
 20L17 Connections with category theory
 20L99 None of the above, but in this section
20Mxx Semigroups
 20M05 Free semigroups, generators and relations, word problems
 20M07 Varieties of semigroups
 20M10 General structure theory
 20M11 Radical theory
 20M12 Ideal theory
 20M14 Commutative semigroups
 20M15 Mappings of semigroups
 20M17 Regular semigroups
 20M18 Inverse semigroups
 20M19 Orthodox semigroups
 20M20 Semigroups of transformations, etc. [See also 47D03, 47H20, 54H15]
 20M25 Semigroup rings, multiplicative semigroups of rings [See also 16S36, 16Y60]
 20M30 Representation of semigroups
 20M35 Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Qxx, 68S05]
 20M50 Connections of semigroups with homological algebra and category theory
 20M99 None of the above, but in this section
20Nxx Other generalizations of groups
 20N02 Sets with a single binary operation (groupoids)
 20N05 Loops, quasigroups [See also 05Bxx]
 20N07 Mappings of loops
 20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
 20N15 n -ary systems
 20N20 Hypergroups
 20N25 Fuzzy groups [See also 04A72]
 20N99 None of the above, but in this section
20P05 Probabilistic methods in group theory
22-XX TOPOLOGICAL GROUPS, LIE GROUPS {For transformation groups, see 54H15, 57Sxx, 58-XX. For abstract harmonic analysis, see 43-XX}
 22-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 22-01 Instructional exposition (textbooks, tutorial papers, etc.)
 22-02 Research exposition (monographs, survey articles)
 22-03 Historical (must also be assigned at least one classification number from Section 01)
 22-04 Explicit machine computation and programs (not the theory of computation or programming)
 22-06 Proceedings, conferences, collections, etc.
22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80; for dual spaces of operator algebras and topological groups, see 47D35}
 22A05 Structure of general topological groups
 22A10 Analysis on general topological groups
 22A15 Structure of topological semigroups

- 22A20 Analysis on topological semigroups
 22A22 Topological groupoids (including differentiable and Lie groupoids)
 22A25 Representations of general topological groups and semigroups
 22A26 Topological semilattices, lattices and applications [See also 06B30, 06B35, 06F30]
 22A30 Other topological algebraic systems and their representations
 22A99 None of the above, but in this section
22Bxx Locally compact abelian groups (LCA groups)
 22B05 General properties and structure of LCA groups
 22B10 Structure of group algebras of LCA groups
 22B99 None of the above, but in this section
22C05 Compact groups
22Dxx Locally compact groups and their algebras
 22D05 General properties and structure of locally compact groups
 22D10 Unitary representations of locally compact groups
 22D12 Other representations of locally compact groups
 22D15 Group algebras of locally compact groups
 22D20 Representations of group algebras
 22D25 C^* -algebras and W^* -algebras arising from group representations [See also 46Lxx]
 22D30 Induced representations
 22D35 Duality theorems
 22D40 Ergodic theory on groups [See also 28Dxx, 43A60]
 22D45 Automorphism groups of locally compact groups
 22D99 None of the above, but in this section
22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90}
 22E05 Local Lie groups [See also 34-XX, 35-XX, 58H05]
 22E10 General properties and structure of complex Lie groups [See also 32M05]
 22E15 General properties and structure of real Lie groups
 22E20 General properties and structure of other Lie groups
 22E25 Nilpotent and solvable Lie groups
 22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)
 22E30 Analysis on real and complex Lie groups [See also 33C80, 43-XX]
 22E35 Analysis on p -adic Lie groups [See also 11R56]
 22E40 Discrete subgroups of Lie groups [See also 20Hxx, 32Nxx]
 22E41 Continuous cohomology [See also 57R32, 57Txx, 58H10]
 22E43 Structure and representation of the Lorentz group
 22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05}
 22E46 Semisimple Lie groups and their representations
 22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [See also 17B35]
 22E50 Representations of Lie and linear algebraic groups over local fields
 22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [See also 20G05]
 22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx}
 22E65 Infinite-dimensional Lie groups and their Lie algebras [See also 17B65, 58B25, 58H05]
 22E67 Loop groups and related constructions, group-theoretic treatment [See also 58D05]
 22E70 Applications of Lie groups to physics; explicit representations [See also 81R05, 81R10]
 22E99 None of the above, but in this section
26-XX REAL FUNCTIONS [See also 54C30]
 26-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 26-01 Instructional exposition (textbooks, tutorial papers, etc.)
 26-02 Research exposition (monographs, survey articles)
 26-03 Historical (must also be assigned at least one classification number from Section 01)
 26-04 Explicit machine computation and programs (not the theory of computation or programming)
 26-06 Proceedings, conferences, collections, etc.
26Axx Functions of one variable
 26A03 Foundations: limits and generalizations, elementary topology of the line
 26A06 One-variable calculus
 26A09 Elementary functions
 26A12 Rate of growth of functions, orders of infinity, slowly varying functions [See also 26A48]
 26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27}
 26A16 Lipschitz (Hölder) classes
 26A18 Iteration [See also 39B12, 47H10, 54H25, 58F08, 58F13]
 26A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50]
 26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15]
 26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
 26A30 Singular functions, Cantor functions, functions with other special properties
 26A33 Fractional derivatives and integrals
 26A36 Antidifferentiation
 26A39 Denjoy and Perron integrals, other special integrals
 26A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28-XX]
 26A45 Functions of bounded variation, generalizations
 26A46 Absolutely continuous functions
 26A48 Monotonic functions, generalizations
 26A51 Convexity, generalizations
 26A99 None of the above, but in this section
26Bxx Functions of several variables
 26B05 Continuity and differentiation questions
 26B10 Implicit function theorems, Jacobians, transformations with several variables
 26B12 Calculus of vector functions
 26B15 Integration: length, area, volume [See also 28A75, 51M25]
 26B20 Integral formulas (Stokes, Gauss, Green, etc.)
 26B25 Convexity, generalizations
 26B30 Absolutely continuous functions, functions of bounded variation
 26B35 Special properties of functions of several variables, Hölder conditions, etc.
 26B40 Representation and superposition of functions
 26B99 None of the above, but in this section
26Cxx Polynomials, rational functions
 26C05 Polynomials: analytic properties, etc. [See also 12Dxx, 12Exx]
 26C10 Polynomials: location of zeros [See also 12D10, 30C15, 65H05]
 26C15 Rational functions [See also 14Pxx]
 26C99 None of the above, but in this section
26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15}
 26D05 Inequalities for trigonometric functions and polynomials
 26D07 Inequalities involving other types of functions
 26D10 Inequalities involving derivatives and differential and integral operators
 26D15 Inequalities for sums, series and integrals
 26D20 Other analytical inequalities
 26D99 None of the above, but in this section
26Exx Miscellaneous topics [See also 58Cxx]
 26E05 Real-analytic functions [See also 32B05, 32C05]
 26E10 C^∞ -functions, quasi-analytic functions [See also 58C25]
 26E15 Calculus of functions on infinite-dimensional spaces [See also 46G05, 58Cxx]
 26E20 Calculus of functions taking values in infinite-dimensional spaces [See also 46E40, 46G10, 58Cxx]
 26E25 Set-valued functions [See also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx}
 26E30 Non-Archimedean analysis [See also 12J25]
 26E35 Nonstandard analysis [See also 03H05, 28E05, 54J05]
 26E40 Constructive real analysis [See also 03F60, 03F65]
 26E50 Fuzzy real analysis [See also 04A72, 28E10]
 26E99 None of the above, but in this section
28-XX MEASURE AND INTEGRATION {For analysis on manifolds, see 58-XX}
 28-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 28-01 Instructional exposition (textbooks, tutorial papers, etc.)
 28-02 Research exposition (monographs, survey articles)
 28-03 Historical (must also be assigned at least one classification number from Section 01)
 28-04 Explicit machine computation and programs (not the theory of computation or programming)
 28-06 Proceedings, conferences, collections, etc.
28Axx Classical measure theory
 28A05 Classes of sets (Borel fields, σ -rings, etc.), measurable sets, Suslin sets, analytic sets [See also 03E15, 04A15, 26A21, 54H05]
 28A10 Real- or complex-valued set functions
 28A12 Contents, measures, outer measures, capacities
 28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24]
 28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
 28A25 Integration with respect to measures and other set functions
 28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx]
 28A35 Measures and integrals in product spaces
 28A50 Integration and disintegration of measures
 28A51 Lifting theory [See also 46G15]

- 28A60 Measures on Boolean rings, measure algebras [See also 54H10]
 28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49Q15]
 28A78 Hausdorff measures
 28A80 Fractals [See also 58Fxx]
 28A99 None of the above, but in this section
 28Bxx **Set functions, measures and integrals with values in abstract spaces**
 28B05 Vector-valued set functions, measures and integrals [See also 46G10]
 28B10 Group- or semigroup-valued set functions, measures and integrals
 28B15 Set functions, measures and integrals with values in ordered spaces
 28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [See also 26E25, 54C60, 54C65, 90A14]
 28B99 None of the above, but in this section
 28Cxx **Set functions and measures on spaces with additional structure** [See also 46G12, 58C35, 58D20]
 28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures
 28C10 Set functions and measures on topological groups, Haar measures, invariant measures [See also 22Axx, 43A05]
 28C15 Set functions and measures on topological spaces (regularity of measures, etc.)
 28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [See also 46G12, 58C35, 58D20, 60B11]
 28C99 None of the above, but in this section
 28Dxx **Measure-theoretic ergodic theory** [See also 11K50, 11K55, 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]
 28D05 Measure-preserving transformations
 28D10 One-parameter continuous families of measure-preserving transformations
 28D15 General groups of measure-preserving transformations
 28D20 Entropy and other invariants
 28D99 None of the above, but in this section
 28Exx **Miscellaneous topics in measure theory**
 28E05 Nonstandard measure theory [See also 03H05, 26E35]
 28E10 Fuzzy measure theory [See also 04A72, 26E50, 94D05]
 28E15 Other connections with logic and set theory
 28E99 None of the above, but in this section
- 30-XX FUNCTIONS OF A COMPLEX VARIABLE** {For analysis on manifolds, see 58-XX}
 30-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 30-01 Instructional exposition (textbooks, tutorial papers, etc.)
 30-02 Research exposition (monographs, survey articles)
 30-03 Historical (must also be assigned at least one classification number from Section 01)
 30-04 Explicit machine computation and programs (not the theory of computation or programming)
 30-06 Proceedings, conferences, collections, etc.
 30Axx **General properties**
 30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
 30A10 Inequalities in the complex domain
 30A99 None of the above, but in this section
 30Bxx **Series expansions**
 30B10 Power series (including lacunary series)
 30B20 Random power series
 30B30 Boundary behavior of power series, over-convergence
 30B40 Analytic continuation
 30B50 Dirichlet series and other series expansions, exponential series [See also 11M41, 42-XX]
 30B60 Completeness problems, closure of a system of functions
 30B70 Continued fractions [See also 11A55, 40A15]
 30B99 None of the above, but in this section
 30Cxx **Geometric function theory**
 30C10 Polynomials
 30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10}
 30C20 Conformal mappings of special domains
 30C25 Covering theorems in conformal mapping theory
 30C30 Numerical methods in conformal mapping theory [See also 65E05]
 30C35 General theory of conformal mappings
 30C40 Kernel functions and applications
 30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
 30C50 Coefficient problems for univalent and multivalent functions
 30C55 General theory of univalent and multivalent functions
 30C62 Quasiconformal mappings in the plane
 30C65 Quasiconformal mappings in \mathbb{R}^n , other generalizations
- 30C70 Extremal problems for conformal and quasiconformal mappings, variational methods
 30C75 Extremal problems for conformal and quasiconformal mappings, other methods
 30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination
 30C85 Capacity and harmonic measure in the complex plane [See also 31A15]
 30C99 None of the above, but in this section
 30Dxx **Entire and meromorphic functions, and related topics**
 30D05 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34A20, 39-XX, 58F08, 58F23]
 30D10 Representations of entire functions by series and integrals
 30D15 Special classes of entire functions and growth estimates
 30D20 Entire functions, general theory
 30D30 Meromorphic functions, general theory
 30D35 Distribution of values, Nevanlinna theory
 30D40 Cluster sets, prime ends, boundary behavior
 30D45 Bloch functions, normal functions, normal families
 30D50 Blaschke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part
 30D55 H^p -classes
 30D60 Quasi-analytic and other classes of functions
 30D99 None of the above, but in this section
 30Exx **Miscellaneous topics of analysis in the complex domain**
 30E05 Moment problems, interpolation problems
 30E10 Approximation in the complex domain
 30E15 Asymptotic representations in the complex domain
 30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx]
 30E25 Boundary value problems [See also 45Exx]
 30E99 None of the above, but in this section
 30Fxx **Riemann surfaces**
 30F10 Compact Riemann surfaces and uniformization [See also 14H15, 32G15]
 30F15 Harmonic functions on Riemann surfaces
 30F20 Classification theory of Riemann surfaces
 30F25 Ideal boundary theory
 30F30 Differentials on Riemann surfaces
 30F35 Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]
 30F40 Kleinian groups [See also 20H10]
 30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)
 30F50 Klein surfaces
 30F60 Teichmüller theory [See also 32G15]
 30F99 None of the above, but in this section
 30Gxx **Generalized function theory**
 30G06 Non-Archimedean function theory [See also 12J25]; nonstandard function theory [See also 03H05]
 30G12 Finely holomorphic functions and topological function theory
 30G20 Generalizations of Bers or Vekua type (pseudo-analytic, p -analytic, etc.)
 30G25 Discrete analytic functions
 30G30 Other generalizations of analytic functions (including abstract-valued functions)
 30G35 Functions of hypercomplex variables and generalized variables
 30G99 None of the above, but in this section
 30H05 **Spaces and algebras of analytic functions** [See also 32E25, 46Exx, 46J15]
- 31-XX POTENTIAL THEORY** {For probabilistic potential theory, see 60J45}
 31-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 31-01 Instructional exposition (textbooks, tutorial papers, etc.)
 31-02 Research exposition (monographs, survey articles)
 31-03 Historical (must also be assigned at least one classification number from Section 01)
 31-04 Explicit machine computation and programs (not the theory of computation or programming)
 31-06 Proceedings, conferences, collections, etc.
 31Axx **Two-dimensional theory**
 31A05 Harmonic, subharmonic, superharmonic functions
 31A10 Integral representations, integral operators, integral equations methods
 31A15 Potentials and capacity, harmonic measure, extremal length [See also 30C85]
 31A20 Boundary behavior (theorems of Fatou type, etc.)
 31A25 Boundary value and inverse problems
 31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
 31A35 Connections with differential equations
 31A99 None of the above, but in this section

- 31Bxx Higher-dimensional theory**
- 31B05 Harmonic, subharmonic, superharmonic functions
- 31B10 Integral representations, integral operators, integral equations methods
- 31B15 Potentials and capacities, extremal length
- 31B20 Boundary value and inverse problems
- 31B25 Boundary behavior
- 31B30 Biharmonic and polyharmonic equations and functions
- 31B35 Connections with differential equations
- 31B99 None of the above, but in this section
- 31Cxx Other generalizations**
- 31C05 Harmonic, subharmonic, superharmonic functions
- 31C10 Pluriharmonic and plurisubharmonic functions [See also 32F05]
- 31C12 Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14]
- 31C15 Potentials and capacities
- 31C20 Discrete potential theory and numerical methods
- 31C25 Dirichlet spaces
- 31C35 Martin boundary theory [See also 60J50]
- 31C40 Fine potential theory
- 31C45 Other generalizations (nonlinear potential theory, etc.)
- 31C99 None of the above, but in this section
- 31D05 Axiomatic potential theory**
- 32-XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES**
[For infinite-dimensional holomorphy, see also 46G20, 58B12]
- 32-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 32-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 32-02 Research exposition (monographs, survey articles)
- 32-03 Historical (must also be assigned at least one classification number from Section 01)
- 32-04 Explicit machine computation and programs (not the theory of computation or programming)
- 32-06 Proceedings, conferences, collections, etc.
- 32Axx Holomorphic functions of several complex variables**
- 32A05 Power series, series of functions
- 32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)
- 32A10 Holomorphic functions
- 32A15 Entire functions
- 32A17 Special families of functions (e.g. normal families)
- 32A20 Meromorphic functions
- 32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30}
- 32A25 Integral representation
- 32A27 Local theory of residues [See also 32C30]
- 32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35}
- 32A35 H^p -spaces [See also 32M15, 42B30, 43A85, 46J15]
- 32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA) in n dimensions) [See also 46Exx]
- 32A40 Boundary behavior
- 32A45 Hyperfunctions [See also 46F15]
- 32A99 None of the above, but in this section
- 32Bxx Local analytic geometry** [See also 13-XX and 14-XX]
- 32B05 Analytic algebras and generalizations, preparation theorems
- 32B10 Germs of analytic sets
- 32B15 Analytic subsets of affine space
- 32B20 Semi-analytic sets and subanalytic sets [See also 14P15]
- 32B25 Triangulation and related questions
- 32B99 None of the above, but in this section
- 32Cxx General theory of analytic spaces**
- 32C05 Real-analytic manifolds, real-analytic spaces [See also 14Pxx, 58A07]
- 32C07 Real-analytic sets, complex Nash functions [See also 14P15, 14P20]
- 32C10 Complex manifolds {For almost complex manifolds, see 53C15}
- 32C11 Complex supergeometry [See also 14A22, 14M30, 58A50]
- 32C15 Complex spaces
- 32C16 CR-manifolds
- 32C17 Kähler geometry {For differential-geometric methods, see 53C55}
- 32C18 Topology of analytic spaces
- 32C20 Normal analytic spaces
- 32C25 Analytic subsets and submanifolds
- 32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27}
- 32C35 Analytic sheaves and cohomology groups [See also 14Fxx, 18F20, 55N30]
- 32C36 Local cohomology of analytic spaces
- 32C37 Duality theorems
- 32C38 Sheaves of differential operators and their modules [See also 14F10, 16S32, 35A27, 58G07]
- 32C81 Applications to physics
- 32C99 None of the above, but in this section
- 32Dxx Analytic continuation**
- 32D05 Domains of holomorphy
- 32D10 Envelopes of holomorphy
- 32D15 Continuation of analytic objects
- 32D20 Removable singularities
- 32D99 None of the above, but in this section
- 32Exx Holomorphic convexity**
- 32E05 Holomorphically convex complex spaces, reduction theory
- 32E10 Stein spaces, Stein manifolds
- 32E20 Polynomial convexity
- 32E25 Algebras of holomorphic functions [See also 30H05, 46J10, 46J15]
- 32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation
- 32E35 Global boundary behavior of holomorphic functions
- 32E99 None of the above, but in this section
- 32Fxx Geometric convexity, partial differential operators**
- 32F05 Plurisubharmonic functions and generalizations [See also 31C10]
- 32F07 Complex Monge-Ampère operator
- 32F10 q -convexity, q -concavity
- 32F15 Pseudoconvex domains
- 32F20 $\bar{\partial}$ - and $\bar{\partial}_s$ -Neumann problems [See also 35N15]
- 32F25 Real submanifolds in complex manifolds
- 32F30 Pseudoconvex manifolds
- 32F40 CR structures, (tangential) CR operators and generalizations
- 32F99 None of the above, but in this section
- 32Gxx Deformations of analytic structures**
- 32G05 Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15]
- 32G07 Deformations of special (e.g. CR) structures
- 32G08 Deformations of fiber bundles
- 32G10 Deformations of submanifolds and subspaces
- 32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10} [See also 14H15, 14J15]
- 32G15 Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx]
- 32G20 Period matrices, variation of Hodge structure; degenerations [See also 14D05, 14D07, 14K30]
- 32G34 Moduli and deformations for ordinary differential equations [See also 34A20]
- 32G81 Applications to physics
- 32G99 None of the above, but in this section
- 32Hxx Holomorphic mappings and correspondences**
- 32H02 Holomorphic mappings, (holomorphic) embeddings and related questions
- 32H04 Meromorphic mappings
- 32H10 Bergman kernel function, representative domains
- 32H15 Invariant metrics and pseudodistances
- 32H20 Hyperbolic complex manifolds
- 32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22}
- 32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22}
- 32H35 Proper mappings, finiteness theorems
- 32H40 Boundary regularity of holomorphic maps
- 32H50 Iteration problems
- 32H99 None of the above, but in this section
- 32Jxx Compact analytic spaces** {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx}
- 32J05 Compactification of analytic spaces
- 32J10 Algebraic dependence theorems
- 32J15 Compact surfaces
- 32J17 Compact 3-folds
- 32J18 Compact n -folds ($n \geq 4$)
- 32J20 Algebraicity criteria
- 32J25 Transcendental methods of algebraic geometry [See also 14C30]
- 32J27 Compact Kähler manifolds: generalizations, classification
- 32J81 Applications to physics
- 32J99 None of the above, but in this section
- 32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)**
- 32K05 Banach analytic spaces [See also 58Bxx]
- 32K07 Formal and graded complex spaces [See also 58C50]
- 32K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25]
- 32K99 None of the above, but in this section
- 32Lxx Holomorphic fiber spaces** [See also 55Rxx]
- 32L05 Holomorphic fiber bundles and generalizations
- 32L07 Hermite-Einstein bundles; Kähler-Einstein metrics [See also 53C07]
- 32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 14F05, 18F20, 55N30]
- 32L15 Bundle convexity [See also 32F10]
- 32L20 Vanishing theorems

- 32L25 Twistor theory, double fibrations
 32L30 Holomorphic foliations [See also 58F18]
 32L81 Applications to physics
 32L99 None of the above, but in this section
32Mxx Complex spaces with a group of automorphisms
 32M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10]
 32M10 Homogeneous complex manifolds [See also 14M17, 57T15]
 32M12 Almost homogeneous manifolds and spaces [See also 14M17]
 32M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57T15]
 32M99 None of the above, but in this section
32Nxx Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35]
 32N05 General theory of automorphic functions of several complex variables
 32N10 Automorphic forms
 32N15 Automorphic functions in symmetric domains
 32N99 None of the above, but in this section
32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32Sxx Singularities
 32S05 Local singularities [See also 14B05]
 32S10 Invariants of analytic local rings
 32S15 Equisingularity (topological and analytic) [See also 14E15]
 32S20 Global theory of singularities; cohomological properties [See also 14E15]
 32S25 (Hyper-) surface singularities [See also 14J17]
 32S30 Deformations of singularities; vanishing cycles [See also 14B07]
 32S35 Mixed Hodge theory of singular varieties [See also 14C30, 14D07]
 32S40 Monodromy; relations with differential equations and D -modules
 32S45 Modifications; resolution of singularities [See also 14E15]
 32S50 Topological aspects: Lefschetz theorems, topological classification, invariants
 32S55 Milnor fibration; relations with knot theory [See also 57M25, 57Q45]
 32S60 Stratifications; constructible sheaves; intersection cohomology [See also 58C27]
 32S65 Singularities of holomorphic vector fields
 32S70 Other operations on singularities
33-XX SPECIAL FUNCTIONS {33-XX deals with the properties of functions as functions. For orthogonal functions, see also 42Cxx; for aspects of combinatorics, see 05Axx; for number-theoretic aspects, see 11-XX; for representation theory, see 22Exx}
 33-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 33-01 Instructional exposition (textbooks, tutorial papers, etc.)
 33-02 Research exposition (monographs, survey articles)
 33-03 Historical (must also be assigned at least one classification number from Section 01)
 33-04 Explicit machine computation and programs (not the theory of computation or programming)
 33-06 Proceedings, conferences, collections, etc.
33Bxx Elementary classical functions
 33B10 Exponential and trigonometric functions
 33B15 Gamma, beta and polygamma functions
 33B20 Incomplete beta and gamma functions (error functions, probability integrals, Fresnel integrals)
 33B99 None of the above, but in this section
33Cxx Hypergeometric functions
 33C05 Classical hypergeometric functions, ${}_2F_1$
 33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$
 33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$
 33C20 Generalized hypergeometric series, ${}_pF_q$
 33C45 Orthogonal polynomials and functions (Chebyshev, Legendre, Gegenbauer, Jacobi, Laguerre, Hermite, Hahn, etc.)
 33C50 Orthogonal polynomials and functions in several variables
 33C55 Spherical functions, spherical harmonics, ultraspherical polynomials
 33C60 Hypergeometric integrals and functions defined by them (E , G and H functions)
 33C65 Appell, Horn and Lauricella functions
 33C70 Other hypergeometric functions and integrals in several variables
 33C75 Elliptic integrals as hypergeometric functions
 33C80 Connections with groups, algebras, root systems and related topics
 33C90 Applications
 33C99 None of the above, but in this section
33Dxx Basic hypergeometric functions
 33D05 q -gamma functions, q -beta functions and integrals
 33D10 Basic theta functions
 33D15 Basic hypergeometric functions in one variable
 33D20 Generalized basic hypergeometric series
 33D45 Basic orthogonal polynomials and functions in one and several variables
 33D55 Basic spherical functions, spherical harmonics (continuous and discrete)
 33D60 Basic hypergeometric integrals and functions defined by them
 33D65 Basic functions and multiple bases
 33D70 Other basic hypergeometric functions and integrals in several variables
 33D80 Connections with groups, algebras, and related topics
 33D90 Applications
 33D99 None of the above, but in this section
33Exx Other special functions
 33E05 Elliptic functions and integrals
 33E10 Lamé, Mathieu, and spheroidal wave functions
 33E15 Other wave functions
 33E20 Other functions defined by series and integrals
 33E30 Other functions coming from differential, difference and integral equations
 33E99 None of the above, but in this section
34-XX ORDINARY DIFFERENTIAL EQUATIONS
 34-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 34-01 Instructional exposition (textbooks, tutorial papers, etc.)
 34-02 Research exposition (monographs, survey articles)
 34-03 Historical (must also be assigned at least one classification number from Section 01)
 34-04 Explicit machine computation and programs (not the theory of computation or programming)
 34-06 Proceedings, conferences, collections, etc.
34Axx General theory
 34A05 Explicit solutions and reductions
 34A09 Implicit equations
 34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions
 34A20 Differential equations in the complex domain [See also 30D05, 32G34]
 34A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44-XX, 47E05]
 34A26 Geometric methods in differential equations
 34A30 Linear equations and systems
 34A34 Nonlinear equations and systems, general
 34A35 Differential equations of infinite order
 34A37 Differential equations with impulses
 34A40 Differential inequalities
 34A45 Theoretical approximation of solutions
 34A46 Theoretical solution methods other than approximations
 34A47 Bifurcation
 34A50 Numerical approximation of solutions {For numerical analysis, see 65Lxx}
 34A55 Inverse problems
 34A60 Equations with multivalued right-hand sides [See also 49J24, 49K24]
 34A65 Stiff equations
 34A99 None of the above, but in this section
34Bxx Boundary value problems {For ordinary differential operators, see 34Lxx}
 34B05 Linear equations
 34B10 Multipoint boundary value problems
 34B15 Nonlinear boundary value problems
 34B20 Weyl theory and its generalizations
 34B24 Sturm-Liouville theory [See also 34Lxx]
 34B27 Green functions
 34B30 Special equations (Mathieu, Hill, Bessel, etc.)
 34B99 None of the above, but in this section
34Cxx Qualitative theory [See also 58Fxx]
 34C05 Location of integral curves, singular points, limit cycles
 34C10 Oscillation theory, zeros, disconjugacy and comparison theory
 34C11 Growth, boundedness, comparison of solutions
 34C15 Nonlinear oscillations
 34C20 Transformation and reduction of equations and systems, normal forms
 34C23 Bifurcation [See mainly 58F14]
 34C25 Periodic solutions
 34C27 Almost-periodic solutions
 34C28 Other types of "recurrent" solutions
 34C29 Averaging method
 34C30 Manifolds of solutions
 34C35 Dynamical systems [See also 54H20, 58Fxx, 70-XX]
 34C37 Homoclinic and heteroclinic solutions [See also 58F15]
 34C40 Equations and systems on manifolds [See mainly 58Fxx, 58Gxx]
 34C45 Method of integral manifolds
 34C50 Method of accelerated convergence
 34C99 None of the above, but in this section
34Dxx Stability theory [See also 58F10, 93Dxx]
 34D05 Asymptotic properties
 34D08 Lyapunov exponents
 34D10 Perturbations
 34D15 Singular perturbations

- 34D20 Lyapunov stability
 34D25 Popov-type stability
 34D30 Structural stability and analogous concepts [See also 58F10, 58F12]
 34D35 Stability of manifolds of solutions
 34D40 Ultimate boundedness
 34D45 Attractors
 34D99 None of the above, but in this section
34Exx Asymptotic theory
 34E05 Asymptotic expansions
 34E10 Perturbations, asymptotics
 34E15 Singular perturbations, general theory
 34E20 Singular perturbations, turning point theory, WKB methods
 34E99 None of the above, but in this section
34F05 Equations and systems with randomness [See also 34K50, 60H10, 93E03]
34Gxx Differential equations in abstract spaces [See also 58D25]
 34G10 Linear equations [See also 47Axx, 47Bxx, 47D06, 47D09]
 34G20 Nonlinear equations [See also 47Hxx]
 34G99 None of the above, but in this section
34H05 Control problems [See also 49J25, 49K25, 93C15]
34Kxx Functional-differential and differential-difference equations, with or without deviating arguments
 34K05 General theory
 34K10 Boundary value problems
 34K15 Qualitative theory
 34K20 Stability theory
 34K25 Asymptotic theory
 34K30 Equations in abstract spaces [See also 34Gxx]
 34K35 Control problems [See also 49J25, 49K25, 93C15]
 34K40 Neutral equations
 34K50 Stochastic delay equations [See also 34F05, 60Hxx]
 34K99 None of the above, but in this section
34Lxx Ordinary differential operators [See also 47E05]
 34L05 General spectral theory
 34L10 Eigenfunction expansions, completeness of eigenfunctions
 34L15 Estimation of eigenvalues, upper and lower bounds
 34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions
 34L25 Scattering theory
 34L30 Nonlinear ordinary differential operators
 34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)
 34L99 None of the above, but in this section
35-XX PARTIAL DIFFERENTIAL EQUATIONS
 35-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 35-01 Instructional exposition (textbooks, tutorial papers, etc.)
 35-02 Research exposition (monographs, survey articles)
 35-03 Historical (must also be assigned at least one classification number from Section 01)
 35-04 Explicit machine computation and programs (not the theory of computation or programming)
 35-06 Proceedings, conferences, collections, etc.
35Axx General theory
 35A05 General existence and uniqueness theorems
 35A07 Local existence and uniqueness theorems [See also 35H05, 35Sxx]
 35A08 Fundamental solutions
 35A10 Cauchy-Kovalevskaya theorems
 35A15 Variational methods
 35A20 Analytic methods, singularities
 35A22 Transform methods (e.g. integral transforms)
 35A25 Other special methods
 35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [See also 32C38, 58G07]
 35A30 Geometric theory, characteristics, transformations [See also 58G35, 58G37]
 35A35 Theoretical approximation to solutions
 35A40 Numerical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx, 65P05}
 35A99 None of the above, but in this section
35Bxx Qualitative properties of solutions
 35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)
 35B10 Periodic solutions
 35B15 Almost periodic solutions
 35B20 Perturbations
 35B25 Singular perturbations
 35B27 Homogenization; partial differential equations in media with periodic structure [See also 73B27, 76D30]
 35B30 Dependence of solutions of PDE on initial and boundary data, parameters [See also 58F14]
 35B32 Bifurcation [See also 58F14]
 35B35 Stability, boundedness

- 35B37 PDE in connection with control problems [See also 49J20, 49K20, 93C20]
 35B40 Asymptotic behavior of solutions
 35B45 A priori estimates
 35B50 Maximum principles
 35B60 Continuation and prolongation of solutions of PDE [See also 58A15, 58A17, 58Hxx]
 35B65 Smoothness/regularity of solutions of PDE
 35B99 None of the above, but in this section
35Cxx Representations of solutions
 35C05 Solutions in closed form
 35C10 Series solutions, expansion theorems
 35C15 Integral representations of solutions of PDE
 35C20 Asymptotic expansions
 35C99 None of the above, but in this section
35Dxx Generalized solutions of partial differential equations
 35D05 Existence of generalized solutions
 35D10 Regularity of generalized solutions
 35D99 None of the above, but in this section
35Exx Equations and systems with constant coefficients [See also 35N05]
 35E05 Fundamental solutions
 35E10 Convexity properties
 35E15 Initial value problems
 35E20 General theory
 35E99 None of the above, but in this section
35Fxx General first-order equations and systems
 35F05 General theory of linear first-order PDE
 35F10 Initial value problems for linear first-order PDE, linear evolution equations
 35F15 Boundary value problems for linear first-order PDE
 35F20 General theory of nonlinear first-order PDE
 35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations
 35F30 Boundary value problems for nonlinear first-order PDE
 35F99 None of the above, but in this section
35Gxx General higher-order equations and systems
 35G05 General theory of linear higher-order PDE
 35G10 Initial value problems for linear higher-order PDE, linear evolution equations
 35G15 Boundary value problems for linear higher-order PDE
 35G20 General theory of nonlinear higher-order PDE
 35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations
 35G30 Boundary value problems for nonlinear higher-order PDE
 35G99 None of the above, but in this section
35H05 Hypoelliptic equations and systems [See also 58Gxx]
35Jxx Partial differential equations of elliptic type [See also 58G05, 58G10]
 35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [See also 31Axx, 31Bxx]
 35J10 Schrödinger operator [See also 35Pxx]
 35J15 General theory of second-order elliptic equations
 35J20 Variational methods for second-order elliptic equations
 35J25 Boundary value problems for second-order elliptic equations
 35J30 General theory of higher-order elliptic equations [See also 31A30, 31B30]
 35J35 Variational methods for higher-order elliptic equations
 35J40 Boundary value problems for higher-order elliptic equations
 35J45 General theory of elliptic systems of PDE
 35J50 Variational methods for elliptic systems
 35J55 Boundary value problems for elliptic systems
 35J60 Nonlinear PDE of elliptic type
 35J65 Nonlinear boundary value problems for linear elliptic PDE; boundary value problems for nonlinear elliptic PDE
 35J67 Boundary values of solutions to elliptic PDE
 35J70 Elliptic partial differential equations of degenerate type
 35J85 Unilateral problems and variational inequalities for elliptic PDE [See also 35R35, 49J40]
 35J99 None of the above, but in this section
35Kxx Parabolic equations and systems [See also 35Bxx, 35Dxx, 35R30, 35R35, 58G11]
 35K05 Heat equation
 35K10 General theory of second-order parabolic equations
 35K15 Initial value problems for second-order parabolic equations
 35K20 Boundary value problems for second-order parabolic equations
 35K22 Evolution equations (any order in the spatial derivatives) [See also 58D25]
 35K25 General theory of higher-order parabolic equations
 35K30 Initial value problems for higher-order parabolic equations
 35K35 Boundary value problems for higher-order parabolic equations
 35K40 General theory of parabolic systems of PDE
 35K45 Initial value problems for parabolic systems
 35K50 Boundary value problems for parabolic systems

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- 35K55 Nonlinear PDE of parabolic type
 35K57 Reaction-diffusion equations
 35K60 Nonlinear boundary value problems for linear parabolic PDE; boundary value problems for nonlinear parabolic PDE
 35K65 Parabolic partial differential equations of degenerate type
 35K70 Ultraparabolic, pseudoparabolic PDE, etc.
 35K85 Unilateral problems and variational inequalities for parabolic PDE [See also 35R35, 49J40]
 35K99 None of the above, but in this section
 35Lxx **Partial differential equations of hyperbolic type** [See also 58G16]
 35L05 Wave equation
 35L10 General theory of second-order hyperbolic equations
 35L15 Initial value problems for second-order hyperbolic equations
 35L20 Boundary value problems for second-order hyperbolic equations
 35L25 General theory of higher-order hyperbolic equations
 35L30 Initial value problems for higher-order hyperbolic equations
 35L35 Boundary value problems for higher-order hyperbolic equations
 35L40 General theory of hyperbolic systems of first-order PDE
 35L45 Initial value problems for hyperbolic systems of first-order PDE
 35L50 Boundary value problems for hyperbolic systems of first-order PDE
 35L55 Hyperbolic systems of higher-order PDE
 35L60 Nonlinear first-order PDE of hyperbolic type
 35L65 Conservation laws
 35L67 Shocks and singularities [See also 58C27, 76L05]
 35L70 Nonlinear second-order PDE of hyperbolic type
 35L75 Nonlinear hyperbolic PDE of higher (> 2) order
 35L80 Hyperbolic PDE of degenerate type
 35L85 Unilateral problems; variational inequalities for hyperbolic PDE [See also 35R35, 49J40]
 35L99 None of the above, but in this section
 35Mxx **Partial differential equations of special type (mixed, composite, etc.)** [For degenerate types, see 35J70, 35K65, 35L80]
 35M10 PDE of mixed type
 35M20 PDE of composite type
 35M99 None of the above, but in this section
 35Nxx **Overdetermined systems** [See also 58G05, 58G07, 58Hxx]
 35N05 Overdetermined systems with constant coefficients
 35N10 Overdetermined systems with variable coefficients (general)
 35N15 $\bar{\partial}$ -Neumann problem and generalizations; formal complexes [See also 32F20 and 58G05]
 35N99 None of the above, but in this section
 35Pxx **Spectral theory and eigenvalue problems for partial differential operators** [See also 47Axx, 47Bxx, 47F05]
 35P05 General spectral theory of PDE
 35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO
 35P15 Estimation of eigenvalues, upper and lower bounds
 35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO
 35P25 Scattering theory for PDE [See also 47A40]
 35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO
 35P99 None of the above, but in this section
 35Qxx **Equations of mathematical physics and other areas of application** [See also 35J05, 35J10, 35K05, 35L05]
 35Q05 Euler-Poisson-Darboux equation and generalizations
 35Q15 Riemann-Hilbert problems [See also 30E25, 31A25, 31B20]
 35Q30 Stokes and Navier-Stokes equations [See also 76D05, 76D07, 76N10]
 35Q35 Other equations arising in fluid mechanics
 35Q40 Equations from quantum mechanics
 35Q51 Solitons [See also 58F07]
 35Q53 KdV-like equations (Korteweg-de Vries, Burgers, sine-Gordon, sinh-Gordon, etc.) [See also 58F07]
 35Q55 NLS-like (nonlinear Schrödinger) equations [See also 58F07]
 35Q58 Other completely integrable equations [See also 58F07]
 35Q60 Equations of electromagnetic theory and optics
 35Q72 Other equations from mechanics
 35Q75 PDE in relativity
 35Q80 Applications of PDE in areas other than physics
 35Q99 None of the above, but in this section
 35Rxx **Miscellaneous topics involving partial differential equations** [For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDE, see also 60H15]
 35R05 PDE with discontinuous coefficients or data
 35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments
 35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [See also 46Gxx, 58D25]
 35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [See also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H15, 47H20]
 35R25 Improperly posed problems for PDE
 35R30 Inverse problems (undetermined coefficients, etc.) for PDE
 35R35 Free boundary problems for PDE
 35R45 Partial differential inequalities
 35R50 Partial differential equations of infinite order
 35R60 Partial differential equations with randomness [See also 60H15]
 35R70 PDE with multivalued right-hand sides
 35R99 None of the above, but in this section
 35Sxx **Pseudodifferential operators and other generalizations of partial differential operators** [See also 47G30, 58G15]
 35S05 General theory of Ψ DO
 35S10 Initial value problems for Ψ DO
 35S15 Boundary value problems for Ψ DO
 35S30 Fourier integral operators
 35S35 Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58G07]
 35S50 Paradifferential operators
 35S99 None of the above, but in this section
 39-XX **FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS**
 39-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 39-01 Instructional exposition (textbooks, tutorial papers, etc.)
 39-02 Research exposition (monographs, survey articles)
 39-03 Historical (must also be assigned at least one classification number from Section 01)
 39-04 Explicit machine computation and programs (not the theory of computation or programming)
 39-06 Proceedings, conferences, collections, etc.
 39Axx **Difference equations** [For dynamical systems, see 58Fxx]
 39A05 General
 39A10 Difference equations [See also 33Dxx]
 39A11 Stability of difference equations
 39A12 Discrete version of topics in analysis
 39A70 Difference operators [See also 47B39]
 39A99 None of the above, but in this section
 39Bxx **Functional equations** [See also 30D05]
 39B05 General
 39B12 Iteration theory, iterative and composite equations [See also 26A18, 30D05, 58F08]
 39B22 Equations for real functions
 39B32 Equations for complex functions [See also 30D05]
 39B42 Matrix and operator equations
 39B52 Equations for functions with more general domains and/or ranges
 39B62 Systems of functional equations
 39B72 Inequalities involving unknown functions [See also 26A51, 26Dxx]
 39B99 None of the above, but in this section
 40-XX **SEQUENCES, SERIES, SUMMABILITY**
 40-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 40-01 Instructional exposition (textbooks, tutorial papers, etc.)
 40-02 Research exposition (monographs, survey articles)
 40-03 Historical (must also be assigned at least one classification number from Section 01)
 40-04 Explicit machine computation and programs (not the theory of computation or programming)
 40-06 Proceedings, conferences, collections, etc.
 40Axx **Convergence and divergence of infinite limiting processes**
 40A05 Convergence and divergence of series and sequences
 40A10 Convergence and divergence of integrals
 40A15 Convergence and divergence of continued fractions [See also 30B70]
 40A20 Convergence and divergence of infinite products
 40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15}
 40A30 Convergence and divergence of series and sequences of functions
 40A99 None of the above, but in this section
 40B05 **Multiple sequences and series (should also be assigned at least one other classification number in this section)**
 40Cxx **General summability methods**
 40C05 Matrix methods
 40C10 Integral methods
 40C15 Function-theoretic methods (including power series methods and semicontinuous methods)
 40C99 None of the above, but in this section
 40Dxx **Direct theorems on summability**
 40D05 General theorems
 40D09 Structure of summability fields
 40D10 Tauberian constants and oscillation limits
 40D15 Convergence factors and summability factors
 40D20 Summability and bounded fields of methods
 40D25 Inclusion and equivalence theorems
 40D99 None of the above, but in this section
 40Exx **Inversion theorems**
 40E05 Tauberian theorems, general
 40E10 Growth estimates
 40E15 Lacunary inversion theorems
 40E20 Tauberian constants
 40E99 None of the above, but in this section

- 40F05** Absolute and strong summability
40Gxx Special methods of summability
40G05 Cesàro, Euler, Nörlund and Hausdorff methods
40G10 Abel, Borel and power series methods
40G99 None of the above, but in this section
40H05 Functional analytic methods in summability
40J05 Summability in abstract structures [See also 43A55, 46A35, 46B15]
- 41-XX** APPROXIMATIONS AND EXPANSIONS (For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx)
- 41-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 41-01 Instructional exposition (textbooks, tutorial papers, etc.)
 41-02 Research exposition (monographs, survey articles)
 41-03 Historical (must also be assigned at least one classification number from Section 01)
 41-04 Explicit machine computation and programs (not the theory of computation or programming)
 41-06 Proceedings, conferences, collections, etc.
 41A05 Interpolation [See also 42A15 and 65D05]
 41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10}
 41A15 Spline approximation
 41A17 Inequalities in approximation (Bernstein-, Jackson-, Nikol'skiĭ-type inequalities)
 41A20 Approximation by rational functions
 41A21 Padé approximation
 41A25 Rate of convergence, degree of approximation
 41A27 Inverse theorems
 41A28 Simultaneous approximation
 41A29 Approximation with constraints
 41A30 Approximation by other special function classes
 41A35 Approximation by operators (in particular, by integral operators)
 41A36 Approximation by positive operators
 41A40 Saturation
 41A44 Best constants
 41A45 Approximation by arbitrary linear expressions
 41A46 Approximation by arbitrary nonlinear expressions; widths and entropy
 41A50 Best approximation, Chebyshev systems
 41A52 Uniqueness of best approximation
 41A55 Approximate quadratures
 41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)
 41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]
 41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)
 41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
 41A80 Remainders in approximation formulas
 41A99 Miscellaneous topics
- 42-XX** FOURIER ANALYSIS
 42-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 42-01 Instructional exposition (textbooks, tutorial papers, etc.)
 42-02 Research exposition (monographs, survey articles)
 42-03 Historical (must also be assigned at least one classification number from Section 01)
 42-04 Explicit machine computation and programs (not the theory of computation or programming)
 42-06 Proceedings, conferences, collections, etc.
42Axx Fourier analysis in one variable
 42A05 Trigonometric polynomials, inequalities, extremal problems
 42A10 Trigonometric approximation
 42A15 Trigonometric interpolation
 42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30}
 42A20 Convergence of Fourier and trigonometric series
 42A24 Summability of Fourier and trigonometric series
 42A28 Absolute convergence, absolute summability
 42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
 42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
 42A45 Multipliers
 42A50 Conjugate functions, conjugate series, singular integrals
 42A55 Lacunary series of trigonometric and other functions; Riesz products
 42A61 Probabilistic methods
 42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
 42A65 Completeness of sets of functions
 42A70 Trigonometric moment problems
- 42A75 Classical almost periodic functions, mean periodic functions [See also 43A60]
 42A82 Positive definite functions
 42A85 Convolution, factorization
 42A99 None of the above, but in this section
42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30}
 42B05 Fourier series and coefficients
 42B08 Summability
 42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
 42B15 Multipliers
 42B20 Singular integrals (Calderón-Zygmund, etc.)
 42B25 Maximal functions, Littlewood-Paley theory
 42B30 H^p -spaces
 42B99 None of the above, but in this section
42Cxx Nontrigonometric Fourier analysis
 42C05 Orthogonal functions and polynomials, general theory [See also 33C45, 33C50, 33D45]
 42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
 42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions
 42C20 Rearrangements and other transformations of Fourier and other orthogonal series
 42C25 Uniqueness and localization for orthogonal series
 42C30 Completeness of sets of functions
 42C99 None of the above, but in this section
- 43-XX** ABSTRACT HARMONIC ANALYSIS {For other analysis on topological and Lie groups, see 22Exx}
 43-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 43-01 Instructional exposition (textbooks, tutorial papers, etc.)
 43-02 Research exposition (monographs, survey articles)
 43-03 Historical (must also be assigned at least one classification number from Section 01)
 43-04 Explicit machine computation and programs (not the theory of computation or programming)
 43-06 Proceedings, conferences, collections, etc.
 43A05 Measures on groups and semigroups, etc.
 43A07 Means on groups, semigroups, etc.; amenable groups
 43A10 Measure algebras on groups, semigroups, etc.
 43A15 L^p -spaces and other function spaces on groups, semigroups, etc.
 43A17 Analysis on ordered groups, H^p -theory
 43A20 L^1 -algebras on groups, semigroups, etc.
 43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
 43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
 43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
 43A32 Other transforms and operators of Fourier type
 43A35 Positive definite functions on groups, semigroups, etc.
 43A40 Character groups and dual objects
 43A45 Spectral synthesis on groups, semigroups, etc.
 43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
 43A50 Convergence of Fourier series and of inverse transforms
 43A55 Summability methods on groups, semigroups, etc. [See also 40J05]
 43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
 43A62 Hypergroups
 43A65 Representations of groups, semigroups, etc. [See also 22A10, 22A20, 22Dxx, 22E45]
 43A70 Analysis on specific locally compact abelian groups [See also 11R56, 22B05]
 43A75 Analysis on specific compact groups
 43A77 Analysis on general compact groups
 43A80 Analysis on other specific Lie groups [See also 22Exx]
 43A85 Analysis on homogeneous spaces
 43A90 Spherical functions [See also 22E45, 22E46, 33C65, 33D55]
 43A95 Categorical methods [See also 46Mxx]
 43A99 Miscellaneous topics
- 44-XX** INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10}
 44-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 44-01 Instructional exposition (textbooks, tutorial papers, etc.)
 44-02 Research exposition (monographs, survey articles)

- 44-03 Historical (must also be assigned at least one classification number from Section 01)
- 44-04 Explicit machine computation and programs (not the theory of computation or programming)
- 44-06 Proceedings, conferences, collections, etc.
- 44A05 General transforms [See also 42A38]
- 44A10 Laplace transform
- 44A12 Radon transform [See also 92C55]
- 44A15 Special transforms (Legendre, Hilbert, etc.)
- 44A20 Transforms of special functions
- 44A30 Multiple transforms
- 44A35 Convolution
- 44A40 Calculus of Mikusiński and other operational calculi
- 44A45 Classical operational calculus
- 44A55 Discrete operational calculus
- 44A60 Moment problems
- 44A99 Miscellaneous topics
- 45-XX INTEGRAL EQUATIONS**
- 45-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 45-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 45-02 Research exposition (monographs, survey articles)
- 45-03 Historical (must also be assigned at least one classification number from Section 01)
- 45-04 Explicit machine computation and programs (not the theory of computation or programming)
- 45-06 Proceedings, conferences, collections, etc.
- 45A05 Linear integral equations**
- 45B05 Fredholm integral equations**
- 45C05 Eigenvalue problems** [See also 34Lxx, 35Pxx, 45P05, 47A75]
- 45D05 Volterra integral equations** [See also 34A12]
- 45Exx Singular integral equations** [See also 30E20, 30E25, 44A15, 44A35]
- 45E05 Integral equations with kernels of Cauchy type [See also 35J15]
- 45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35]
- 45E99 None of the above, but in this section
- 45Fxx Systems of linear integral equations**
- 45F05 Systems of nonsingular linear integral equations
- 45F10 Dual, triple, etc., integral and series equations
- 45F15 Systems of singular linear integral equations
- 45F99 None of the above, but in this section
- 45Gxx Nonlinear integral equations** [See also 47H15]
- 45G05 Singular nonlinear integral equations
- 45G10 Other nonlinear integral equations
- 45G15 Systems of nonlinear integral equations
- 45H05 Miscellaneous special kernels** [See also 44A15]
- 45J05 Integro-ordinary differential equations**
- 45K05 Integro-partial differential equations**
- 45Lxx Approximation of solutions**
- 45L05 Theoretical approximation of solutions
- 45L10 Numerical approximation of solutions [For numerical analysis, see 65R20]
- 45L99 None of the above, but in this section
- 45Mxx Qualitative behavior**
- 45M05 Asymptotics
- 45M10 Stability theory
- 45M15 Periodic solutions
- 45M20 Positive solutions
- 45M99 None of the above, but in this section
- 45N05 Abstract integral equations, integral equations in abstract spaces**
- 45P05 Integral operators** [See also 47B38, 47G10]
- 46-XX FUNCTIONAL ANALYSIS** [For manifolds modeled on topological linear spaces, see 57N20, 58Bxx]
- 46-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 46-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 46-02 Research exposition (monographs, survey articles)
- 46-03 Historical (must also be assigned at least one classification number from Section 01)
- 46-04 Explicit machine computation and programs (not the theory of computation or programming)
- 46-06 Proceedings, conferences, collections, etc.
- 46Axx Topological linear spaces and related structures** [For function spaces, see 46Exx]
- 46A03 General theory of locally convex spaces
- 46A04 Locally convex Fréchet spaces and (DF)-spaces
- 46A08 Barreled spaces, bornological spaces
- 46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
- 46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [See also 46M40]
- 46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)
- 46A17 Bornologies and related structures; Mackey convergence, etc.
- 46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than \mathbb{R} , etc.)
- 46A20 Duality theory
- 46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [See also 46M10]
- 46A25 Reflexivity and semi-reflexivity [See also 46B10]
- 46A30 Open mapping and closed graph theorems; completeness (including B -, B_0 -completeness)
- 46A32 Spaces of linear operators; topological tensor products; approximation properties [See also 46B28, 46M05, 47D15, 47D50]
- 46A35 Summability and bases [See also 46B15]
- 46A40 Ordered topological linear spaces, vector lattices [See also 06F20, 46B40, 46B42]
- 46A45 Sequence spaces (including Köthe sequence spaces) [See also 46B45]
- 46A50 Compactness in topological linear spaces; angelic spaces, etc.
- 46A55 Convex sets in topological linear spaces; Choquet theory [See also 52A07]
- 46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)
- 46A80 Modular spaces
- 46A99 None of the above, but in this section
- 46Bxx Normed linear spaces and Banach spaces; Banach lattices** [For function spaces, see 46Exx]
- 46B03 Isomorphic theory (including renorming) of Banach spaces
- 46B04 Isometric theory of Banach spaces
- 46B07 Local theory of Banach spaces
- 46B08 Ultraproduct techniques in Banach space theory [See also 46M07]
- 46B09 Probabilistic methods in Banach space theory [See also 60Bxx]
- 46B10 Duality and reflexivity [See also 46A25]
- 46B15 Summability and bases [See also 46A35]
- 46B20 Geometry and structure of normed linear spaces
- 46B22 Radon-Nikodým, Krein-Mil'man and related properties [See also 46G10]
- 46B25 Classical Banach spaces in the general theory
- 46B26 Nonseparable Banach spaces
- 46B28 Spaces of operators; tensor products; approximation properties [See also 46A32, 46M05, 47D15, 47D50]
- 46B40 Ordered normed spaces [See also 46A40, 46B42]
- 46B42 Banach lattices [See also 46A40, 46B40]
- 46B45 Banach sequence spaces [See also 46A45]
- 46B70 Interpolation between normed linear spaces [See also 46M35]
- 46B99 None of the above, but in this section
- 46Cxx Inner product spaces and their generalizations, Hilbert spaces** [For function spaces, see 46Exx]
- 46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)
- 46C15 Characterizations of Hilbert spaces
- 46C20 Spaces with indefinite inner product
- 46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)
- 46C99 None of the above, but in this section
- 46Exx Linear function spaces and their duals** [See also 30H05, 32E25, 46F05; for function algebras, see 46J10]
- 46E05 Lattices of continuous, differentiable or analytic functions
- 46E10 Topological linear spaces of continuous, differentiable or analytic functions
- 46E15 Banach spaces of continuous, differentiable or analytic functions
- 46E20 Hilbert spaces of continuous, differentiable or analytic functions
- 46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces)
- 46E25 Rings and algebras of continuous, differentiable or analytic functions [For Banach function algebras, see 46J10, 46J15]
- 46E27 Spaces of measures [See also 28A33, 46Gxx]
- 46E30 Spaces of measurable functions (L^p -spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
- 46E35 Sobolev spaces and other spaces of "smooth" functions, embedding theorems, trace theorems
- 46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables
- 46E40 Spaces of vector- and operator-valued functions
- 46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [See also 46G20]
- 46E99 None of the above, but in this section
- 46Fxx Distributions, generalized functions, distribution spaces** [For distribution theory on nonlinear spaces, see 58Cxx]
- 46F05 Topological linear spaces of test functions, distributions and ultradistributions [See also 46E10, 46E35]
- 46F10 Operations with distributions
- 46F12 Integral transforms in distribution spaces [See also 42-XX, 44-XX]

- 46F15 Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58G07]
- 46F20 Distributions and ultradistributions as boundary values of analytic functions [See also 30D40, 30E25, 32A40]
- 46F25 Distributions on infinite-dimensional spaces [See also 58C35]
- 46F99 None of the above, but in this section
- 46Gxx **Measure, integration, derivative, holomorphy (all involving infinite-dimensional spaces)** [See also 28-XX] (For nonlinear functional analysis, see 47Hxx, 58-XX, especially 58Cxx)
- 46G05 Derivatives [See also 58C20, 58C25]
- 46G10 Vector-valued measures and integration [See also 28Bxx, 46B22]
- 46G12 Measure and integration on abstract linear spaces [See also 28C20]
- 46G15 Functional analytic lifting theory [See also 28A51]
- 46G20 Infinite-dimensional holomorphy [See also 32-XX, 46E50, 58B12, 58C10]
- 46G99 None of the above, but in this section
- 46Hxx **Topological algebras, normed rings and algebras, Banach algebras (For group algebras, convolution algebras and measure algebras, see 43A10, 43A20)**
- 46H05 General theory of topological algebras
- 46H10 Ideals and subalgebras
- 46H15 Representations of topological algebras
- 46H20 Structure, classification of topological algebras
- 46H25 Normed modules and Banach modules, topological modules (if not placed in 13-XX or 16-XX)
- 46H30 Functional calculus in topological algebras [See also 47A60]
- 46H35 Topological algebras of operators [See mainly 47D30, and also 47D25, 47D50]
- 46H40 Automatic continuity
- 46H70 Nonassociative topological algebras [See also 46K70, 46L70]
- 46H99 None of the above, but in this section
- 46Jxx **Commutative Banach algebras and commutative topological algebras** [See also 46E25]
- 46J05 General theory of commutative topological algebras
- 46J10 Banach algebras of continuous functions, function algebras [See also 46E25]
- 46J15 Banach algebras of differentiable or analytic functions, H^p -spaces [See also 30D55, 30H05, 32A35, 32A37, 32E25, 42B30]
- 46J20 Ideals, maximal ideals, boundaries
- 46J25 Representations of commutative topological algebras
- 46J30 Subalgebras
- 46J40 Structure, classification of commutative topological algebras
- 46J45 Radical Banach algebras
- 46J99 None of the above, but in this section
- 46Kxx **Topological (rings and) algebras with an involution** [See also 16W10]
- 46K05 General theory of topological algebras with involution
- 46K10 Representations of topological algebras with involution
- 46K15 Hilbert algebras
- 46K50 Nonselfadjoint (sub)algebras in algebras with involution
- 46K70 Nonassociative topological algebras with an involution [See also 46H70, 46L70]
- 46K99 None of the above, but in this section
- 46Lxx **Selfadjoint operator algebras (C^* -algebras, von Neumann (W^* -) algebras, etc.)** [See also 22D25]
- 46L05 General theory of C^* -algebras
- 46L10 General theory of von Neumann algebras
- 46L30 States
- 46L35 Classifications of C^* -algebras, factors
- 46L37 Subfactors and their classification
- 46L40 Automorphisms
- 46L45 Decomposition theory for C^* -algebras
- 46L50 Noncommutative measure, integration and probability
- 46L55 Noncommutative dynamical systems [See also 28Dxx, 54H20, 58Fxx]
- 46L57 Derivations, dissipations and positive semigroups in C^* -algebras
- 46L60 Applications of selfadjoint operator algebras to physics [See also 46N50, 46N55, 47D45, 81T05, 82B10, 82C10]
- 46L70 Nonassociative selfadjoint operator algebras [See also 46H70, 46K70]
- 46L80 K -theory and operator algebras (including cyclic theory) [See also 18F25, 19Kxx, 46M20, 55Rxx, 58G12]
- 46L85 Noncommutative topology [See also 58B30, 58G12]
- 46L87 Noncommutative differential geometry [See also 58B30, 58G12]
- 46L89 Other "noncommutative" mathematics based on C^* -algebra theory [See also 58B30, 58G12]
- 46L99 None of the above, but in this section
- 46Mxx **Methods of category theory in functional analysis** [See also 18-XX]
- 46M05 Tensor products [See also 46A32, 46B28, 47A80]
- 46M07 Ultraproducts [See also 46B08, 46S20]
- 46M10 Projective and injective objects [See also 46A22]
- 46M15 Functors (For K -theory and EXT, see 19K33, 46L80, 46M20)
- 46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [See also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 55Rxx]
- 46M35 Abstract interpolation of topological vector spaces [See also 46B70]
- 46M40 Inductive and projective limits [See also 46A13]
- 46M99 None of the above, but in this section
- 46Nxx **Miscellaneous applications of functional analysis** [See also 47Nxx]
- 46N10 Applications in optimization, convex analysis, mathematical programming, economics
- 46N20 Applications to differential and integral equations
- 46N30 Applications in probability theory and statistics
- 46N40 Applications in numerical analysis [See also 65Jxx]
- 46N50 Applications in quantum physics
- 46N55 Applications in statistical physics
- 46N60 Applications in biology and other sciences
- 46N99 None of the above, but in this section
- 46Sxx **Other (nonclassical) types of functional analysis** [See also 47Sxx]
- 46S10 Functional analysis over fields other than \mathbb{R} or \mathbb{C} or the quaternions; non-Archimedean functional analysis [See also 12J25, 32P05]
- 46S20 Nonstandard functional analysis [See also 03H05]
- 46S30 Constructive functional analysis [See also 03F65]
- 46S40 Fuzzy functional analysis [See also 04A72]
- 46S50 Functional analysis in probabilistic metric linear spaces
- 46S99 None of the above, but in this section
- 47-XX **OPERATOR THEORY**
- 47-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 47-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 47-02 Research exposition (monographs, survey articles)
- 47-03 Historical (must also be assigned at least one classification number from Section 01)
- 47-04 Explicit machine computation and programs (not the theory of computation or programming)
- 47-06 Proceedings, conferences, collections, etc.
- 47Axx **General theory of linear operators**
- 47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
- 47A10 Spectrum, resolvent
- 47A11 Local spectral properties
- 47A12 Numerical range
- 47A13 Several-variable spectral theory
- 47A15 Invariant subspaces
- 47A20 Dilations, extensions, compressions
- 47A25 Spectral sets
- 47A30 Norms (inequalities, more than one norm, etc.)
- 47A35 Ergodic theory [See also 28Dxx]
- 47A40 Scattering theory [See also 34L25, 35P25, 81Uxx]
- 47A45 Canonical models for contractions and nonselfadjoint operators
- 47A48 Operator colligations (= nodes)
- 47A50 Equations and inequalities involving linear operators, with vector unknowns
- 47A53 (Semi-) Fredholm operators; index theories [See also 58B10, 58G12]
- 47A55 Perturbation theory
- 47A56 Functions whose values are linear operators (operator and matrix pencils, etc.)
- 47A57 Operator methods in interpolation, moment and extension problems [See also 30E05, 42A70, 42A82]
- 47A58 Operator approximation theory
- 47A60 Functional calculus
- 47A62 Equations involving linear operators, with operator unknowns
- 47A63 Operator inequalities, operator means, shorted operators, etc.
- 47A65 Structure theory
- 47A66 (Non)quasitriangular, (non)quasidiagonal operators
- 47A67 Representation theory
- 47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)
- 47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces
- 47A75 Eigenvalue problems [See also 49Rxx]
- 47A80 Tensor products of operators [See also 46M05]
- 47A99 None of the above, but in this section
- 47Bxx **Special classes of linear operators**
- 47B06 Riesz operators; eigenvalue distributions; approximation numbers, s -numbers, Kolmogorov numbers, entropy numbers, etc. of operators
- 47B07 Operators defined by compactness properties
- 47B10 Operators belonging to operator ideals (nuclear, p -summing, in the Schatten-von Neumann classes, etc.) [See also 47D50]
- 47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
- 47B20 Subnormal operators, hyponormal operators, etc.
- 47B25 Symmetric and selfadjoint operators (unbounded)
- 47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [See also 45P05, 47G10 for other integral operators; see also 32H10, 32M15]
- 47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)

- 47B38 Operators on function spaces (including composition operators, kernel operators)
- 47B39 Difference operators [See also 39A70]
- 47B40 Spectral operators, decomposable operators, well-bounded operators, etc.
- 47B44 Accretive operators, dissipative operators, etc.
- 47B47 Commutators, derivations, elementary operators, etc.
- 47B48 Operators on Banach algebras
- 47B49 Transformers (= operators on spaces of operators)
- 47B50 Operators on spaces with an indefinite metric
- 47B60 Operators on ordered spaces
- 47B65 Positive operators and order-bounded operators
- 47B80 Random operators [See also 60H25]
- 47B99 None of the above, but in this section
- 47Cxx **Individual linear operators as elements of algebraic systems**
- 47C05 Operators in algebras
- 47C10 Operators in \ast -algebras
- 47C15 Operators in C^\ast - or von Neumann algebras
- 47C99 None of the above, but in this section
- 47Dxx **Algebraic systems of linear operators** [See also 46Lxx]
- 47D03 (Semi)groups of linear operators {For nonlinear operators, see 47H20; see also 20M20}
- 47D06 One-parameter semigroups and linear evolution equations
- 47D07 Markov semigroups {For Markov processes, see 60Jxx}
- 47D09 Operator cosine functions and higher-order Cauchy problems
- 47D15 Linear spaces of operators [See also 46A32, 46B28]
- 47D20 Convex sets and cones of operators [See also 90C25, 90C31]
- 47D25 Operator algebras on Hilbert space
- 47D27 Dual operator algebras
- 47D30 Operator algebras on Banach spaces and other linear topological spaces
- 47D35 Dual spaces of operator algebras and topological groups
- 47D40 Algebras of unbounded operators
- 47D45 Applications of operator algebras to physics [See also 46L60, 46N50, 46N55, 47N50, 47N55]
- 47D50 Operator ideals
- 47D99 None of the above, but in this section
- 47E05 **Ordinary differential operators** [See also 34Bxx, 34Lxx, 58F19]
- 47F05 **Partial differential operators** [See also 35Pxx, 58G05]
- 47Gxx **Integral, integro-differential, and pseudodifferential operators**
- 47G10 Integral operators [See also 45P05]
- 47G20 Integro-differential operators [See also 45J05, 45K05]
- 47G30 Pseudodifferential operators [See also 35Sxx, 58G15]
- 47G99 None of the above, but in this section
- 47Hxx **Nonlinear operators** {For global and geometric aspects, see 58-XX, especially 58Cxx}
- 47H04 Set-valued operators [See also 28B20, 54C60, 58C06]
- 47H05 Monotone operators (with respect to duality)
- 47H06 Accretive operators, dissipative operators, etc.
- 47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
- 47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness, A -proper mappings, K -set contractions, etc.)
- 47H10 Fixed-point theorems [See also 54H25, 55M20, 58C30]
- 47H11 Degree theory [See also 55M25, 58C30]
- 47H12 Spectral theory of nonlinear operators [See also 58C40]
- 47H15 Equations involving nonlinear operators [See also 58E07 for abstract bifurcation theory]
- 47H17 Methods for solving equations involving nonlinear operators [See also 58C15] {For numerical analysis, see 65J15}
- 47H19 Inequalities involving nonlinear operators [See also 49J27, 49J40, 49K27]
- 47H20 Semigroups of nonlinear operators and nonlinear evolution equations [See also 58D07]
- 47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskii, Uryson, hysteresis operators, etc.) [See also 45P05]
- 47H40 Random operators [See also 60H25]
- 47H99 None of the above, but in this section
- 47Nxx **Miscellaneous applications of operator theory** [See also 46Nxx]
- 47N10 Applications in optimization, convex analysis, mathematical programming, economics
- 47N20 Applications to differential and integral equations
- 47N30 Applications in probability theory and statistics
- 47N40 Applications in numerical analysis [See also 65Jxx]
- 47N50 Applications in quantum physics
- 47N55 Applications in statistical physics
- 47N60 Applications in biology and other sciences
- 47N70 Applications in systems theory, circuits, etc.
- 47N99 None of the above, but in this section
- 47Sxx **Other (nonclassical) types of operator theory** [See also 46Sxx]
- 47S10 Operator theory over fields other than \mathbb{R} , \mathbb{C} or the quaternions; non-Archimedean operator theory
- 47S20 Nonstandard operator theory [See also 03H05]
- 47S30 Constructive operator theory [See also 03F65]
- 47S40 Fuzzy operator theory [See also 04A72]
- 47S50 Operator theory in probabilistic metric linear spaces
- 47S99 None of the above, but in this section
- 49-XX **CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION** [See also 34H05, 65Kxx, 90Cxx, 93-XX]
- 49-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 49-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 49-02 Research exposition (monographs, survey articles)
- 49-03 Historical (must also be assigned at least one classification number from Section 01)
- 49-04 Explicit machine computation and programs (not the theory of computation or programming)
- 49-06 Proceedings, conferences, collections, etc.
- 49Jxx **Existence theory for optimal solutions**
- 49J05 Free problems in one independent variable
- 49J10 Free problems in two or more independent variables
- 49J15 Optimal control problems involving ordinary differential equations
- 49J20 Optimal control problems involving partial differential equations
- 49J22 Optimal control problems involving integral equations
- 49J24 Optimal control problems involving differential inclusions
- 49J25 Optimal control problems involving equations with retarded arguments [See also 34K35]
- 49J27 Problems in abstract spaces [See also 90C48]
- 49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)
- 49J35 Minimax problems
- 49J40 Variational methods including variational inequalities
- 49J45 Problems involving semicontinuity and convergence
- 49J50 Fréchet and Gateaux differentiability [See also 46G05, 58C20]
- 49J52 Nonsmooth analysis (other weak concepts of optimality) [See also 58C20, 90C48]
- 49J55 Problems involving randomness [See also 93E20]
- 49J99 None of the above, but in this section
- 49Kxx **Necessary conditions and sufficient conditions for optimality**
- 49K05 Free problems in one independent variable
- 49K10 Free problems in two or more independent variables
- 49K15 Problems involving ordinary differential equations
- 49K20 Problems involving partial differential equations
- 49K22 Problems involving integral equations
- 49K24 Problems involving differential inclusions
- 49K25 Problems involving equations with retarded arguments [See also 34K35]
- 49K27 Problems in abstract spaces [See also 90C48, 93C25]
- 49K30 Optimal solutions belonging to restricted classes
- 49K35 Minimax problems
- 49K40 Sensitivity of optimal solutions in the presence of perturbations
- 49K45 Problems involving randomness [See also 93E20]
- 49K99 None of the above, but in this section
- 49Lxx **Carathéodory, Hamilton-Jacobi theories, including dynamic programming**
- 49L05 Free problems and problems involving ordinary differential equations
- 49L10 Free problems and problems involving partial differential equations
- 49L15 Problems in abstract spaces or problems involving functional relations other than differential equations
- 49L20 Dynamic programming method
- 49L25 Viscosity solutions
- 49L99 None of the above, but in this section
- 49Mxx **Methods of successive approximations** {For discrete problems, see 90Cxx; see also 65Kxx}
- 49M05 Methods based on necessary conditions
- 49M07 Gradient methods
- 49M10 Methods of steepest descent type
- 49M15 Methods of Newton-Raphson, Galerkin and Ritz types
- 49M20 Methods of relaxation type
- 49M25 Finite difference methods
- 49M27 Decomposition methods
- 49M29 Multiplier methods
- 49M30 Other methods, not based on necessary conditions (penalty function, etc.)
- 49M35 Methods of linear programming type [See also 90C05]
- 49M37 Nonlinear programming [See also 90C30]
- 49M39 Semi-infinite programming [See also 90C34]
- 49M40 Methods of quadratic programming type [See also 90C20]
- 49M45 Methods of convex programming type [See also 90C25]
- 49M49 Geometric programming [See also 90C28]
- 49M99 None of the above, but in this section

- 49Nxx Miscellaneous topics**
- 49N05 Linear optimal control problems [See also 93C05]
- 49N10 Linear-quadratic problems
- 49N15 Duality theory
- 49N20 Periodic optimization
- 49N25 Impulsive optimal control problems [See also 93C57]
- 49N30 Problems with incomplete information [See also 93C41]
- 49N35 Closed-loop controls
- 49N40 Open-loop controls
- 49N45 Inverse problems in calculus of variations
- 49N50 Inverse problems in optimal control theory
- 49N55 Noneconomic applications of optimal control theory and differential games [See also 90D25]
- 49N60 Regularity of solutions in the calculus of variations
- 49N65 Applications of measurable selections to control theory [See also 28B20, 26E25]
- 49N99 None of the above, but in this section
- 49Qxx Manifolds [See also 58Fxx]**
- 49Q05 Minimal surfaces [See also 53A10, 58E12]
- 49Q10 Optimization of the shape other than minimal surfaces [See also 73K40, 90C90]
- 49Q12 Sensitivity analysis
- 49Q15 Geometric measure and integration theory, integral and normal currents [See also 28A75, 32C30, 58A25, 58C35]
- 49Q20 Variational problems in a geometric measure-theoretic setting
- 49Q25 Surface area
- 49Q99 None of the above, but in this section
- 49Rxx Variational methods {For eigenvalues of operators, see 47A75}**
- 49R05 Variational approach to eigenvalues
- 49R10 Rayleigh-Ritz methods
- 49R15 Weinstein and Aronszajn methods, intermediate problems
- 49R20 Linear operators in Hilbert spaces
- 49R99 None of the above, but in this section
- 49S05 Variational principles of physics**
- 51-XX GEOMETRY {For algebraic geometry, see 14-XX}**
- 51-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 51-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 51-02 Research exposition (monographs, survey articles)
- 51-03 Historical (must also be assigned at least one classification number from Section 01)
- 51-04 Explicit machine computation and programs (not the theory of computation or programming)
- 51-06 Proceedings, conferences, collections, etc.
- 51Axx Linear incidence geometry**
- 51A05 General theory and projective geometries
- 51A10 Homomorphism, automorphism and dualities
- 51A15 Structures with parallelism
- 51A20 Configuration theorems
- 51A25 Algebraization [See also 12Kxx, 20N05]
- 51A30 Desarguesian and Pappian geometries
- 51A35 Non-Desarguesian affine and projective planes
- 51A40 Translation planes and spreads
- 51A45 Incidence structures embeddable into projective geometries
- 51A50 Polar geometry, symplectic spaces, orthogonal spaces
- 51A99 None of the above, but in this section
- 51Bxx Nonlinear incidence geometry**
- 51B05 General theory
- 51B10 Möbius geometries
- 51B15 Laguerre geometries
- 51B20 Minkowski geometries
- 51B25 Lie geometries
- 51B99 None of the above, but in this section
- 51C05 Ring geometry (Hjelmslev, Barbilian, etc.)**
- 51Dxx Geometric closure systems**
- 51D05 Abstract (Maeda) geometries
- 51D10 Abstract geometries with exchange axiom
- 51D15 Abstract geometries with parallelism
- 51D20 Combinatorial geometries [See also 05B25, 05B35]
- 51D25 Lattices of subspaces [See also 05B35]
- 51D30 Continuous geometries and related topics [See also 06Cxx]
- 51D99 None of the above, but in this section
- 51Exx Finite geometry and special incidence structures**
- 51E05 General block designs [See also 05B05]
- 51E10 Steiner systems
- 51E12 Generalized quadrangles, generalized polygons
- 51E14 Finite partial geometries (general), nets, partial spreads
- 51E15 Affine and projective planes
- 51E20 Combinatorial structures in finite projective spaces [See also 05Bxx]
- 51E21 Blocking sets, ovals, k -arcs
- 51E22 Linear codes and caps in Galois spaces [See also 94B05]
- 51E23 Spreads and packing problems
- 51E24 Buildings and the geometry of diagrams
- 51E25 Other finite nonlinear geometries
- 51E26 Other finite linear geometries
- 51E30 Other finite incidence structures [See also 05B30]
- 51E99 None of the above, but in this section
- 51Fxx Metric geometry**
- 51F05 Absolute planes
- 51F10 Absolute spaces
- 51F15 Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]
- 51F20 Congruence and orthogonality [See also 20H05]
- 51F25 Orthogonal and unitary groups [See also 20H05]
- 51F99 None of the above, but in this section
- 51G05 Ordered geometries (ordered incidence structures, etc.)**
- 51Hxx Topological geometry**
- 51H05 General theory
- 51H10 Topological linear incidence structures
- 51H15 Topological nonlinear incidence structures
- 51H20 Topological geometries on manifolds [See also 57-XX]
- 51H25 Geometries with differentiable structure [See also 53Cxx, 53C70]
- 51H30 Geometries with algebraic manifold structure [See also 14-XX]
- 51H99 None of the above, but in this section
- 51Jxx Incidence groups**
- 51J05 General theory
- 51J10 Projective incidence groups
- 51J15 Kinematic spaces
- 51J20 Representation by near-fields and near-algebras [See also 12K05, 16Y30]
- 51J99 None of the above, but in this section
- 51Kxx Distance geometry**
- 51K05 General theory
- 51K10 Synthetic differential geometry
- 51K99 None of the above, but in this section
- 51Lxx Geometric order structures [See also 53C75]**
- 51L05 Geometry of orders of nondifferentiable curves
- 51L10 Directly differentiable curves
- 51L15 n -vertex theorems via direct methods
- 51L20 Geometry of orders of surfaces
- 51L99 None of the above, but in this section
- 51Mxx Real and complex geometry**
- 51M04 Elementary problems in Euclidean geometries
- 51M05 Euclidean geometries (general) and generalizations
- 51M09 Elementary problems in hyperbolic and elliptic geometries
- 51M10 Hyperbolic and elliptic geometries (general) and generalizations
- 51M15 Geometric constructions
- 51M16 Inequalities and extremum problems {For convex problems, see 52A40}
- 51M20 Polyhedra and polytopes; regular figures, division of spaces [See also 51F15]
- 51M25 Length, area and volume [See also 26B15]
- 51M30 Line geometries and their generalizations [See also 53A25]
- 51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15]
- 51M99 None of the above, but in this section
- 51Nxx Analytic and descriptive geometry**
- 51N05 Descriptive geometry [See also 65D17, 68U07]
- 51N10 Affine analytic geometry
- 51N15 Projective analytic geometry
- 51N20 Euclidean analytic geometry
- 51N25 Analytic geometry with other transformation groups
- 51N30 Geometry of classical groups [See also 20Gxx, 14L35]
- 51N35 Questions of classical algebraic geometry [See also 14Nxx]
- 51N99 None of the above, but in this section
- 51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70-86)**
- 52-XX CONVEX AND DISCRETE GEOMETRY**
- 52-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 52-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 52-02 Research exposition (monographs, survey articles)
- 52-03 Historical (must also be assigned at least one classification number from Section 01)
- 52-04 Explicit machine computation and programs (not the theory of computation or programming)
- 52-06 Proceedings, conferences, collections, etc.
- 52Axx General convexity**
- 52A01 Axiomatic and generalized convexity
- 52A05 Convex sets without dimension restrictions
- 52A07 Convex sets in topological vector spaces [See also 46A55]
- 52A10 Convex sets in 2 dimensions (including convex curves) [See also 53A04]

- 52A15 Convex sets in 3 dimensions (including convex surfaces)
[See also 53A05, 53C45]
- 52A20 Convex sets in n dimensions (including convex hypersurfaces)
[See also 53A07, 53C45]
- 52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [See also 46Bxx]
- 52A22 Random convex sets and integral geometry [See also 53C65, 60D05]
- 52A27 Approximation by convex sets
- 52A30 Variants of convex sets (star-shaped, (m, n) -convex, etc.)
- 52A35 Helly-type theorems
- 52A37 Other problems of combinatorial convexity
- 52A38 Length, area, volume [See also 26B15, 28A75, 49Q20]
- 52A39 Mixed volumes and related topics
- 52A40 Inequalities and extremum problems
- 52A41 Convex functions and convex programs [See also 26B25, 90C25]
- 52A55 Spherical and hyperbolic convexity
- 52A99 None of the above, but in this section
- 52Bxx Polytopes and polyhedra**
- 52B05 Combinatorial properties (number of faces, shortest paths, etc.)
[See also 05Cxx]
- 52B10 Three-dimensional polytopes
- 52B11 n -dimensional polytopes
- 52B12 Special polytopes (linear programming, centrally symmetric, etc.)
- 52B15 Symmetry properties of polytopes
- 52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [See also 06A08, 13F20, 13Hxx]
- 52B30 Arrangements of hyperplanes
- 52B35 Gale and other diagrams
- 52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [See also 05B35]
- 52B45 Dissections and valuations (Hilbert's third problem, etc.)
- 52B55 Computational aspects related to convexity {For computational geometry and algorithms, see 68Q20, 68Q25, 68U05; for numerical algorithms, see 65Yxx}
- 52B60 Isoperimetric problems for polytopes
- 52B70 Polyhedral manifolds
- 52B99 None of the above, but in this section
- 52Cxx Discrete geometry**
- 52C05 Lattices and convex bodies in 2 dimensions [See also 11H06, 11H31, 11P21]
- 52C07 Lattices and convex bodies in n dimensions [See also 11H06, 11H31, 11P21]
- 52C10 Erdős problems and related topics of discrete geometry
[See also 11Hxx]
- 52C15 Packing and covering in 2 dimensions [See also 05B40, 11H31]
- 52C17 Packing and covering in n dimensions [See also 05B40, 11H31]
- 52C20 Tilings in 2 dimensions [See also 05B45, 51M20]
- 52C22 Tilings in n dimensions [See also 05B45, 51M20]
- 52C25 Rigidity and flexibility of structures [See also 70B15]
- 52C99 None of the above, but in this section
- 53-XX DIFFERENTIAL GEOMETRY** {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx}
- 53-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 53-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 53-02 Research exposition (monographs, survey articles)
- 53-03 Historical (must also be assigned at least one classification number from Section 01)
- 53-04 Explicit machine computation and programs (not the theory of computation or programming)
- 53-06 Proceedings, conferences, collections, etc.
- 53Axx Classical differential geometry**
- 53A04 Curves in Euclidean space
- 53A05 Surfaces in Euclidean space
- 53A07 Higher-dimension and -codimension surfaces in Euclidean n -space
- 53A10 Minimal surfaces, surfaces with prescribed mean curvature
[See also 49Q05, 49Q10, 53C42]
- 53A15 Affine differential geometry
- 53A17 Kinematics
- 53A20 Projective differential geometry
- 53A25 Differential line geometry
- 53A30 Conformal differential geometry
- 53A35 Non-Euclidean differential geometry
- 53A40 Other special differential geometries
- 53A45 Vector and tensor analysis
- 53A50 Spinor analysis
- 53A55 Differential invariants (local theory), geometric objects
- 53A60 Geometry of webs [See also 14C21, 20N05]
- 53A99 None of the above, but in this section
- 53Bxx Local differential geometry**
- 53B05 Linear and affine connections
- 53B10 Projective connections
- 53B15 Other connections
- 53B20 Local Riemannian geometry
- 53B21 Methods of Riemannian geometry
- 53B25 Local submanifolds [See also 53C40]
- 53B30 Lorentz metrics, indefinite metrics
- 53B35 Hermitian and Kählerian structures [See also 32Cxx]
- 53B40 Finsler spaces and generalizations (areal metrics)
- 53B50 Applications to physics
- 53B99 None of the above, but in this section
- 53Cxx Global differential geometry** [See also 51H25, 58-XX; for related bundle theory, see 55Rxx, 57Rxx]
- 53C05 Connections, general theory
- 53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [See also 32L07]
- 53C10 G -structures
- 53C12 Foliations (differential geometric aspects) [See also 57R30, 57R32]
- 53C15 General geometric structures on manifolds (almost complex, contact, symplectic, almost product structures, etc.)
- 53C20 Global Riemannian geometry, including pinching [See also 31C12, 58B20]
- 53C21 Methods of Riemannian geometry, including PDE methods; curvature restrictions [See also 58G30]
- 53C22 Geodesics [See also 58E10]
- 53C23 Global topological methods (à la Gromov)
- 53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
- 53C30 Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15]
- 53C35 Symmetric spaces [See also 32M15, 57T15]
- 53C40 Global submanifolds [See also 53B25]
- 53C42 Immersions (minimal, prescribed curvature, tight, etc.)
[See also 49Q05, 49Q10, 53A10, 57R40, 57R42]
- 53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
- 53C50 Lorentz manifolds, manifolds with indefinite metrics
- 53C55 Hermitian and Kählerian manifolds [See also 32Cxx]
- 53C56 Other complex differential geometry [See also 32Cxx]
- 53C60 Finsler spaces and generalizations (areal metrics) [See also 58B20]
- 53C65 Integral geometry [See also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]
- 53C70 Direct methods (G -spaces of Busemann, etc.)
- 53C75 Geometric orders, order geometry [See also 51Lxx]
- 53C80 Applications to physics
- 53C99 None of the above, but in this section
- 53Z05 Applications to physics
- 54-XX GENERAL TOPOLOGY** {For the topology of manifolds of all dimensions, see 57Nxx}
- 54-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 54-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 54-02 Research exposition (monographs, survey articles)
- 54-03 Historical (must also be assigned at least one classification number from Section 01)
- 54-04 Explicit machine computation and programs (not the theory of computation or programming)
- 54-06 Proceedings, conferences, collections, etc.
- 54Axx Generalities**
- 54A05 Topological spaces and generalizations (closure spaces, etc.)
- 54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
- 54A15 Syntopogeneous structures
- 54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)
- 54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [See also 03Exx, 04A30] {For ultrafilters, see 54D80}
- 54A35 Consistency and independence results [See also 03E35]
- 54A40 Fuzzy topology [See also 04A72]
- 54A99 None of the above, but in this section
- 54Bxx Basic constructions**
- 54B05 Subspaces
- 54B10 Product spaces
- 54B15 Quotient spaces, decompositions
- 54B17 Adjunction spaces and similar constructions
- 54B20 Hyperspaces
- 54B30 Categorical methods [See also 18B30]
- 54B35 Spectra
- 54B40 Presheaves and sheaves [See also 18F20]
- 54B99 None of the above, but in this section
- 54Cxx Maps and general types of spaces defined by maps**
- 54C05 Continuous maps
- 54C08 Weak and generalized continuity
- 54C10 Special maps on topological spaces (open, closed, perfect, etc.)

- 54C15 Retraction
 54C20 Extension of maps
 54C25 Embedding
 54C30 Real-valued functions [See also 26-XX]
 54C35 Function spaces [See also 46Exx, 58D15]
 54C40 Algebraic properties of function spaces [See also 46J10]
 54C45 C - and C^* -embedding
 54C50 Special sets defined by functions [See also 26A21]
 54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 55M15]
 54C56 Shape theory [See also 55P55, 57N25]
 54C60 Set-valued maps [See also 26E25, 28B20, 47H04, 58C06]
 54C65 Selections [See also 28B20]
 54C70 Entropy
 54C99 None of the above, but in this section
54Dxx Fairly general properties
 54D05 Connected and locally connected spaces (general aspects)
 54D10 Lower separation axioms, (T_0-T_3) , etc.
 54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
 54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)
 54D25 " P -minimal" and " P -closed" spaces
 54D30 Compactness
 54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)
 54D40 Reminders
 54D45 Local compactness, σ -compactness
 54D50 k -spaces
 54D55 Sequential spaces
 54D60 Realcompactness and realcompactification
 54D65 Separability
 54D70 Base properties
 54D80 Special constructions of spaces (spaces of ultrafilters, etc.)
 54D99 None of the above, but in this section
54Exx Spaces with richer structures
 54E05 Proximity structures and generalizations
 54E15 Uniform structures and generalizations
 54E17 Nearness spaces
 54E18 p -spaces, M -spaces, σ -spaces, etc.
 54E20 Stratifiable spaces, cosmic spaces, etc.
 54E25 Semimetric spaces
 54E30 Moore spaces
 54E35 Metric spaces, metrizable
 54E40 Special maps on metric spaces
 54E45 Compact (locally compact) metric spaces
 54E50 Complete metric spaces
 54E52 Baire category, Baire spaces
 54E55 Bitopologies
 54E70 Probabilistic metric spaces
 54E99 None of the above, but in this section
54Fxx Special properties
 54F05 Ordered topological spaces, partially ordered spaces [See also 06B30, 06F30]
 54F15 Continua and generalizations
 54F35 Higher-dimensional local connectedness [See also 55Mxx, 55Nxx]
 54F45 Dimension theory [See also 55M10]
 54F50 Spaces of dimension ≤ 1 ; curves, dendrites [See also 26A03]
 54F55 Unicoherence, multicoherence
 54F65 Topological characterizations of particular spaces
 54F99 None of the above, but in this section
54Gxx Peculiar spaces
 54G05 Extremely disconnected spaces, F -spaces, etc.
 54G10 P -spaces
 54G12 Scattered spaces
 54G15 Pathological spaces
 54G20 Counterexamples
 54G99 None of the above, but in this section
54Hxx Connections with other structures, applications
 54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 03E15, 04A15, 26A21, 28A05]
 54H10 Topological representations of algebraic systems [See also 22-XX]
 54H11 Topological groups [See also 22A05]
 54H12 Topological lattices, etc. [See also 06B30, 06F30]
 54H13 Topological fields, rings, etc. [See also 12Jxx] [For algebraic aspects, see 13Jxx, 16W80]
 54H15 Transformation groups and semigroups [See also 20M20, 22-XX, 57Sxx]
 54H20 Topological dynamics [See also 28Dxx, 34C35, 58Fxx]
 54H25 Fixed-point and coincidence theorems [See also 47H10, 55M20]
 54H99 None of the above, but in this section
54J05 Nonstandard topology [See also 03H05]

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- 55-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 55-01 Instructional exposition (textbooks, tutorial papers, etc.)
 55-02 Research exposition (monographs, survey articles)
 55-03 Historical (must also be assigned at least one classification number from Section 01)
 55-04 Explicit machine computation and programs (not the theory of computation or programming)
 55-06 Proceedings, conferences, collections, etc.
55Mxx Classical topics (For the topology of Euclidean spaces and manifolds, see 57Nxx)
 55M05 Duality
 55M10 Dimension theory [See also 54F45]
 55M15 Absolute neighborhood retracts [See also 54C55]
 55M20 Fixed points and coincidences [See also 54H25]
 55M25 Degree, winding number
 55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space
 55M35 Finite groups of transformations (including Smith theory) [See also 57S17]
 55M99 None of the above, but in this section
55Nxx Homology and cohomology theories [See also 57Txx]
 55N05 Čech types
 55N07 Steenrod-Sitnikov homologies
 55N10 Singular theory
 55N15 K -theory [See also 19Lxx] [For algebraic K -theory, see 18F25, 19-XX]
 55N20 Generalized (extraordinary) homology and cohomology theories
 55N22 Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]
 55N25 Homology with local coefficients, equivariant cohomology
 55N30 Sheaf cohomology [See also 18F20, 32C35, 32L10]
 55N33 Intersection homology and cohomology
 55N35 Other homology theories
 55N40 Axioms for homology theory and uniqueness theorems
 55N45 Products and intersections
 55N91 Equivariant homology and cohomology [See also 19L47]
 55N99 None of the above, but in this section
55Pxx Homotopy theory (For simple homotopy type, see 57Q10)
 55P05 Homotopy extension properties, cofibrations
 55P10 Homotopy equivalences
 55P15 Classification of homotopy type
 55P20 Eilenberg-Mac Lane spaces
 55P25 Spanier-Whitehead duality
 55P30 Eckmann-Hilton duality
 55P35 Loop spaces
 55P40 Suspensions
 55P42 Stable homotopy theory, spectra
 55P45 H -spaces and duals
 55P47 Infinite loop spaces
 55P50 Category and cocategory, etc.
 55P55 Shape theory [See also 54C56, 55Q07]
 55P60 Localization and completion
 55P62 Rational homotopy theory
 55P65 Homotopy functors
 55P91 Equivariant homotopy theory [See also 19L47]
 55P99 None of the above, but in this section
55Qxx Homotopy groups
 55Q05 Homotopy groups, general; sets of homotopy classes
 55Q07 Shape groups
 55Q10 Stable homotopy groups
 55Q15 Whitehead products and generalizations
 55Q20 Homotopy groups of wedges, joins, and simple spaces
 55Q25 Hopf invariants
 55Q30 Homotopy groups of triads, n -ads
 55Q35 Operations in homotopy groups
 55Q40 Homotopy groups of spheres
 55Q45 Stable homotopy of spheres
 55Q50 J -morphism [See also 19L20]
 55Q52 Homotopy groups of special spaces
 55Q55 Cohomotopy groups
 55Q70 Homotopy groups of special types [See also 55N05, 55N07]
 55Q91 Equivariant homotopy groups [See also 19L47]
 55Q99 None of the above, but in this section
55Rxx Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]
 55R05 Fiber spaces
 55R10 Fiber bundles
 55R12 Transfer
 55R15 Classification
 55R20 Spectral sequences and homology of fiber spaces [See also 55Txx]
 55R25 Sphere bundles and vector space bundles
 55R35 Classifying spaces of groups and H -spaces

- 55R40 Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20]
- 55R45 Homology and homotopy of BO and BU ; Bott periodicity
- 55R50 Stable classes of vector space bundles, K -theory [See also 19Lxx] {For algebraic K -theory, see 18F25, 19-XX}
- 55R55 Fiberings with singularities
- 55R60 Microbundles and block bundles [See also 57N55, 57Q50]
- 55R65 Generalizations of fiber spaces and bundles
- 55R91 Equivariant fiber spaces and bundles [See also 19L47]
- 55R99 None of the above, but in this section
- 55Sxx Operations and obstructions**
- 55S05 Primary cohomology operations
- 55S10 Steenrod algebra
- 55S12 Dyer-Lashof operations
- 55S15 Symmetric products, cyclic products
- 55S20 Secondary and higher cohomology operations
- 55S25 K -theory operations and generalized cohomology operations [See also 19D55, 19Lxx]
- 55S30 Massey products
- 55S35 Obstruction theory
- 55S36 Extension and compression of mappings
- 55S37 Classification of mappings
- 55S40 Sectioning fiber spaces and bundles
- 55S45 Postnikov systems, k -invariants
- 55S91 Equivariant operations and obstructions [See also 19L47]
- 55S99 None of the above, but in this section
- 55Txx Spectral sequences** [See also 18G40, 55R20]
- 55T05 General
- 55T10 Serre spectral sequences
- 55T15 Adams spectral sequences
- 55T20 Eilenberg-Moore spectral sequences [See also 57T35]
- 55T25 Generalized cohomology
- 55T99 None of the above, but in this section
- 55Uxx Applied homological algebra and category theory** [See also 18Gxx]
- 55U05 Abstract complexes
- 55U10 Semisimplicial complexes
- 55U15 Chain complexes
- 55U20 Universal coefficient theorems, Bockstein operator
- 55U25 Homology of a product, Künneth formula
- 55U30 Duality
- 55U35 Abstract homotopy theory
- 55U40 Topological categories
- 55U99 None of the above, but in this section
- 57-XX MANIFOLDS AND CELL COMPLEXES** {For complex manifolds, see 32C10}
- 57-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 57-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 57-02 Research exposition (monographs, survey articles)
- 57-03 Historical (must also be assigned at least one classification number from Section 01)
- 57-04 Explicit machine computation and programs (not the theory of computation or programming)
- 57-06 Proceedings, conferences, collections, etc.
- 57Mxx Low-dimensional topology**
- 57M05 Fundamental group, presentations, free differential calculus
- 57M07 Topological methods in group theory
- 57M10 Covering spaces
- 57M12 Special coverings, e.g. branched
- 57M15 Relations with graph theory [See also 05Cxx]
- 57M20 Two-dimensional complexes
- 57M25 Knots and links in S^3 {For higher dimensions, see 57Q45}
- 57M30 Wild knots and surfaces, etc.; wild embeddings
- 57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity
- 57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [See also 57N12]
- 57M50 Geometric structures on low-dimensional manifolds
- 57M60 Group actions in low dimensions
- 57M99 None of the above, but in this section
- 57Nxx Topological manifolds**
- 57N05 Topology of E^2 , 2-manifolds
- 57N10 Topology of general 3-manifolds [See also 57Mxx]
- 57N12 Topology of E^3 and S^3 [See also 57M40]
- 57N13 Topology of E^4 , 4-manifolds [See also 14Jxx, 32Jxx]
- 57N15 Topology of E^n , n -manifolds ($4 < n < \infty$)
- 57N17 Topology of topological vector spaces
- 57N20 Topology of infinite-dimensional manifolds [See also 58Bxx]
- 57N25 Shapes [See also 54C56, 55P55, 55Q07]
- 57N30 Engulfing
- 57N35 Embeddings and immersions
- 57N37 Isotopy and pseudo-isotopy
- 57N40 Neighborhoods of submanifolds
- 57N45 Flatness and tameness
- 57N50 $S^{n-1} \subset E^n$, Schoenflies problem
- 57N55 Microbundles and block bundles [See also 55R60, 57Q50]
- 57N60 Cellularity
- 57N65 Algebraic topology of manifolds
- 57N70 Cobordism and concordance
- 57N75 General position and transversality
- 57N80 Stratifications
- 57N99 None of the above, but in this section
- 57Pxx Generalized manifolds** [See also 18F15]
- 57P05 Local properties of generalized manifolds
- 57P10 Poincaré duality spaces
- 57P99 None of the above, but in this section
- 57Qxx PL-topology**
- 57Q05 General topology of complexes
- 57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28]
- 57Q12 Wall finiteness obstruction for CW-complexes
- 57Q15 Triangulating manifolds
- 57Q20 Cobordism
- 57Q25 Comparison of PL-structures: classification, Hauptvermutung
- 57Q30 Engulfing
- 57Q35 Embeddings and immersions
- 57Q37 Isotopy
- 57Q40 Regular neighborhoods
- 57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25}
- 57Q50 Microbundles and block bundles [See also 55R60, 57N55]
- 57Q55 Approximations
- 57Q60 Cobordism and concordance
- 57Q65 General position and transversality
- 57Q91 Equivariant PL-topology
- 57Q99 None of the above, but in this section
- 57Rxx Differential topology** {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx}
- 57R05 Triangulating
- 57R10 Smoothing
- 57R12 Smooth approximations
- 57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)
- 57R19 Algebraic topology on manifolds
- 57R20 Characteristic classes and numbers
- 57R22 Topology of vector bundles and fiber bundles [See also 55Rxx]
- 57R25 Vector fields, frame fields
- 57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [See also 49Qxx, 58F40, 93B05]
- 57R30 Foliations; geometric theory
- 57R32 Classifying spaces for foliations; Gelfand-Fuks cohomology [See also 58H10]
- 57R35 Differentiable mappings
- 57R40 Embeddings
- 57R42 Immersions
- 57R45 Singularities of differentiable mappings
- 57R50 Diffeomorphisms
- 57R52 Isotopy
- 57R55 Differentiable structures
- 57R57 Applications of global analysis to structures on manifolds [See also 58-XX]
- 57R60 Homotopy spheres, Poincaré conjecture
- 57R65 Surgery and handlebodies
- 57R67 Surgery obstructions, Wall groups [See also 19J25]
- 57R70 Critical points and critical submanifolds
- 57R75 O- and SO-cobordism
- 57R77 Complex cobordism (U- and SU-cobordism) [See also 55N22]
- 57R80 h - and s -cobordism
- 57R85 Equivariant cobordism
- 57R90 Other types of cobordism [See also 55N22]
- 57R91 Equivariant algebraic topology of manifolds
- 57R95 Realizing cycles by submanifolds
- 57R99 None of the above, but in this section
- 57Sxx Topological transformation groups** [See also 20F34, 22-XX, 54H15, 58D05]
- 57S05 Topological properties of groups of homeomorphisms or diffeomorphisms
- 57S10 Compact groups of homeomorphisms
- 57S15 Compact Lie groups of differentiable transformations
- 57S17 Finite transformation groups
- 57S20 Noncompact Lie groups of transformations
- 57S25 Groups acting on specific manifolds
- 57S30 Discontinuous groups of transformations
- 57S99 None of the above, but in this section

- 57Txx Homology and homotopy of topological groups and related structures**
57T05 Hopf algebras [See also 16W30]
57T10 Homology and cohomology of Lie groups
57T15 Homology and cohomology of homogeneous spaces of Lie groups
57T20 Homotopy groups of topological groups and homogeneous spaces
57T25 Homology and cohomology of H -spaces
57T30 Bar and cobar constructions [See also 18G55, 55Uxx]
57T35 Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20]
57T99 None of the above, but in this section
- 58-XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS**
[See also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49Q15]
- 58-00 General reference works (handbooks, dictionaries, bibliographies, etc.)**
58-01 Instructional exposition (textbooks, tutorial papers, etc.)
58-02 Research exposition (monographs, survey articles)
58-03 Historical (must also be assigned at least one classification number from Section 01)
58-04 Explicit machine computation and programs (not the theory of computation or programming)
58-06 Proceedings, conferences, collections, etc.
- 58Axx General theory of differentiable manifolds**
58A03 Topos-theoretic approach to differentiable manifolds
58A05 Differentiable manifolds, foundations
58A07 Real-analytic and Nash manifolds [See also 14P20, 32C07]
58A10 Differential forms
58A12 de Rham theory [See also 14Fxx]
58A14 Hodge theory [See also 14C30, 14Fxx, 32J25, 32S35]
58A15 Exterior differential systems (Cartan theory)
58A17 Pfaffian systems
58A20 Jets
58A25 Currents [See also 32C30, 53C65]
58A30 Vector distributions (subbundles of the tangent bundles)
58A35 Stratified sets [See also 32S60, 58C27]
58A40 Differential spaces
58A50 Supermanifolds and graded manifolds [See also 14A22, 32C11]
58A99 None of the above, but in this section
- 58Bxx Infinite-dimensional manifolds**
58B05 Homotopy and topological questions
58B10 Differentiability questions
58B12 Questions of holomorphy [See also 32-XX, 46G20]
58B15 Fredholm structures [See also 47A53]
58B20 Riemannian, Finsler and other geometric structures [See also 53C20, 53C60]
58B25 Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05]
58B30 Noncommutative differential geometry and topology [See also 46L30, 46L87, 46L89]
58B99 None of the above, but in this section
- 58Cxx Calculus on manifolds; nonlinear operators** [See also 47Hxx]
58C05 Real-valued functions
58C06 Set valued and function-space valued mappings [See also 47H04, 54C60]
58C07 Continuity properties of mappings
58C10 Holomorphic maps [See also 32-XX]
58C15 Implicit function theorems; global Newton methods
58C20 Differentiation theory (Gateaux, Fréchet, etc.) [See also 26Exx, 46G05]
58C25 Differentiable maps
58C27 Singularities of differentiable maps [See also 14B05, 14E15, 32Sxx]
58C28 Catastrophes [See also 57R70, 58Exx]
58C30 Fixed-point theorems on manifolds [See also 47H10]
58C35 Integration on manifolds; measures on manifolds [See also 28Cxx]
58C40 Spectral theory; eigenvalue problems [See also 47H12, 58E07]
58C50 Analysis on supermanifolds or graded manifolds
58C99 None of the above, but in this section
- 58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)**
58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57S05]
58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47D03, 47D06, 47H20]
58D10 Spaces of embeddings and immersions
58D15 Manifolds of mappings [See also 54C35]
58D17 Manifolds of metrics (esp. Riemannian)
58D19 Group actions and symmetry properties
58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See also 28Cxx]
58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K22, 35R15, 47H15]
58D27 Moduli problems for differential geometric structures

- 58D29 Moduli problems for topological structures**
58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)
58D99 None of the above, but in this section
- 58Exx Variational problems in infinite-dimensional spaces**
58E05 Abstract critical point theory (Morse theory, Lusternik-Schnirelman (Lusternik-Shnirel'man) theory, etc.)
58E07 Abstract bifurcation theory
58E09 Group-invariant bifurcation theory
58E10 Applications to the theory of geodesics (problems in one independent variable)
58E11 Critical metrics
58E12 Applications to minimal surfaces (problems in two independent variables)
58E15 Application to extremal problems in several variables; Yang-Mills functionals [See also 81T13], etc.
58E17 Pareto optimality, etc., applications to economics
58E20 Harmonic maps
58E25 Applications to control theory (optimal and nonoptimal)
58E30 Variational principles
58E35 Variational inequalities (global problems)
58E40 Group actions
58E50 Applications
58E99 None of the above, but in this section
- 58Fxx Ordinary differential equations on manifolds; dynamical systems**
[See also 28D10, 34Cxx, 54H20]
58F03 One-dimensional dynamics, general symbolic dynamics [See also 26A18]
58F05 Hamiltonian and Lagrangian systems; symplectic geometry [See also 70Hxx, 81S10]
58F06 Geometric quantization (applications of representation theory) [See also 22E45, 81S10]
58F07 Completely integrable systems (including systems with an infinite number of degrees of freedom)
58F08 Point-mapping properties, iterations, completeness; dynamics of cellular automata [See also 26A18, 30D05]
58F09 Morse-Smale systems
58F10 Stability theory
58F11 Ergodic theory; invariant measures [See also 28Dxx]
58F12 Structure of attractors (and repellers)
58F13 Strange attractors; chaos and other pathologies [See also 70K50]
58F14 Bifurcation theory and singularities
58F15 Hyperbolic structures (expanding maps, Anosov systems, etc.)
58F17 Geodesic and horocycle flows
58F18 Relations with foliations
58F19 Eigenvalue and spectral problems
58F20 Periodic points and zeta functions
58F21 Limit cycles, singular points, etc.
58F22 Periodic solutions
58F23 Holomorphic dynamics [See also 30D05]
58F25 Flows
58F27 Quasiperiodic flows
58F30 Perturbations
58F32 Functional-differential equations on manifolds
58F35 Invariance properties
58F36 Normal forms
58F37 Correspondences and other transformation methods (e.g. Lie-Bäcklund)
58F39 Dynamical systems treatment of PDE (should be assigned another number from 58F) [See also 35B32, 35K57]
58F40 Applications
58F99 None of the above, but in this section
- 58Gxx Partial differential equations on manifolds; differential operators**
[See also 35-XX]
58G03 Elliptic equations on manifolds, general theory
58G05 Differential complexes [See also 35Nxx]; elliptic complexes
58G07 Relations with hyperfunctions
58G10 Index theory and related fixed-point theorems [See also 19K56, 46L80]
58G11 Heat and other parabolic equation methods
58G12 Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20]
58G15 Pseudodifferential and Fourier integral operators on manifolds [See also 35Sxx]
58G16 Hyperbolic equations
58G17 Propagation of singularities; initial value problems
58G18 Perturbations; asymptotics
58G20 Boundary value problems on manifolds
58G25 Spectral problems; spectral geometry; scattering theory [See also 35Pxx]
58G26 Determinants and determinant bundles
58G28 Bifurcations [See also 35B32]
58G30 Relations with special manifold structures (Riemannian, Finsler, etc.)
58G32 Diffusion processes and stochastic analysis on manifolds

- 58G35 Invariance and symmetry properties [See also 35A30]
 58G37 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [See also 35A22]
 58G40 Applications
 58G99 None of the above, but in this section
 58Hxx **Pseudogroups, differentiable groupoids and general structures on manifolds**
 58H05 Pseudogroups and differentiable groupoids [See also 22A22, 22E65]
 58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gelfand-Fuks, etc.) [See also 57R32]
 58H15 Deformations of structures [See also 32Gxx, 58G05]
 58H99 None of the above, but in this section
 58Z05 **Applications to physics**
 60-XX **PROBABILITY THEORY AND STOCHASTIC PROCESSES** (For additional applications, see 11Kxx, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX. For numerical results, see 65U05)
 60-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 60-01 Instructional exposition (textbooks, tutorial papers, etc.)
 60-02 Research exposition (monographs, survey articles)
 60-03 Historical (must also be assigned at least one classification number from Section 01)
 60-04 Explicit machine computation and programs (not the theory of computation or programming)
 60-06 Proceedings, conferences, collections, etc.
 60Axx **Foundations of probability theory**
 60A05 Axioms; other general questions [See also 03B48]
 60A10 Probabilistic measure theory (For ergodic theory, see 28Dxx and 60Fxx)
 60A99 None of the above, but in this section
 60Bxx **Probability theory on algebraic and topological structures**
 60B05 Probability measures on topological spaces
 60B10 Convergence of probability measures
 60B11 Probability theory on linear topological spaces [See also 28C20]
 60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)
 60B15 Probability measures on groups, Fourier transforms, factorization
 60B99 None of the above, but in this section
 60C05 **Combinatorial probability**
 60D05 **Geometric probability, stochastic geometry, random sets** [See also 52A22, 53C65]
 60Exx **Distribution theory** [See also 62Exx, 62Hxx]
 60E05 Distributions: general theory
 60E07 Infinitely divisible distributions; stable distributions
 60E10 Characteristic functions; other transforms
 60E15 Inequalities (Chebyshev, Kolmogorov, etc.)
 60E99 None of the above, but in this section
 60Fxx **Limit theorems** [See also 28Dxx, 60B12]
 60F05 Central limit and other weak theorems
 60F10 Large deviations
 60F15 Strong theorems
 60F17 Functional limit theorems; invariance principles
 60F20 Zero-one laws
 60F25 L^p -limit theorems
 60F99 None of the above, but in this section
 60Gxx **Stochastic processes**
 60G05 Foundations of stochastic processes
 60G07 General theory of processes
 60G09 Exchangeability
 60G10 Stationary processes
 60G12 General second-order processes
 60G15 Gaussian processes
 60G17 Sample path properties
 60G18 Self-similar processes
 60G20 Generalized stochastic processes
 60G25 Prediction theory [See also 62M20]
 60G30 Continuity and singularity of induced measures
 60G35 Applications (signal detection, filtering, etc.) [See also 62M20, 93E10, 93E11, 94Axx]
 60G40 Stopping times; optimal stopping problems; gambling theory [See also 62L15, 90D60]
 60G42 Martingales with discrete parameter
 60G44 Martingales with continuous parameter
 60G46 Martingales and classical analysis
 60G48 Generalizations of martingales
 60G50 Sums of independent random variables
 60G55 Point processes
 60G57 Random measures
 60G60 Random fields
 60G70 Extreme value theory; extremal processes
 60G99 None of the above, but in this section
 60Hxx **Stochastic analysis** [See also 58G32]
 60H05 Stochastic integrals
 60H07 Stochastic calculus of variations and the Malliavin calculus
 60H10 Stochastic ordinary differential equations [See also 34F05]
 60H15 Stochastic partial differential equations [See also 35R60]
 60H20 Stochastic integral equations
 60H25 Random operators and equations [See also 47B80]
 60H30 Applications of stochastic analysis (to PDE, etc.)
 60H99 None of the above, but in this section
 60Jxx **Markov processes**
 60J05 Markov processes with discrete parameter
 60J10 Markov chains with discrete parameter
 60J15 Random walks
 60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [See also 90B30, 92H10, 92H35, 92J40]
 60J25 Markov processes with continuous parameter
 60J27 Markov chains with continuous parameter
 60J30 Processes with independent increments
 60J35 Transition functions, generators and resolvents [See also 47D03, 47D07]
 60J40 Right processes
 60J45 Probabilistic potential theory [See also 31Cxx, 31D05]
 60J50 Boundary theory
 60J55 Local time and additive functionals
 60J57 Multiplicative functionals
 60J60 Diffusion processes [See also 58G32]
 60J65 Brownian motion [See also 58G32]
 60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [See also 92Dxx]
 60J75 Jump processes
 60J80 Branching processes (Galton-Watson, birth-and-death, etc.)
 60J85 Applications of branching processes [See also 92Dxx]
 60J99 None of the above, but in this section
 60Kxx **Special processes**
 60K05 Renewal theory
 60K10 Applications (reliability, demand theory, etc.)
 60K15 Markov renewal processes, semi-Markov processes
 60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90Bxx]
 60K25 Queueing theory [See also 68M20, 90B22]
 60K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 90Bxx]
 60K35 Interacting random processes; statistical mechanics type models; percolation theory [See also 82B43, 82C43]
 60K40 Other physical applications of random processes
 60K99 None of the above, but in this section
 62-XX **STATISTICS** (For numerical methods, see 65U05)
 62-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 62-01 Instructional exposition (textbooks, tutorial papers, etc.)
 62-02 Research exposition (monographs, survey articles)
 62-03 Historical (must also be assigned at least one classification number from Section 01)
 62-04 Explicit machine computation and programs (not the theory of computation or programming)
 62-06 Proceedings, conferences, collections, etc.
 62-07 Data analysis
 62-09 Graphical methods
 62Axx **Foundations**
 62A05 Invariance and group considerations
 62A10 The likelihood approach
 62A15 The Bayesian approach
 62A20 The classical approach
 62A25 The structural approach
 62A30 The fiducial approach
 62A99 None of the above, but in this section
 62Bxx **Sufficiency and information**
 62B05 Sufficient statistics and fields
 62B10 Statistical information theory [See also 94A17]
 62B15 Theory of statistical experiments
 62B20 Measure-theoretic results, etc.
 62B99 None of the above, but in this section
 62Cxx **Decision theory** [See also 90A05, 90B50; for game theory, see 90D35]
 62C05 General considerations
 62C07 Complete class results
 62C10 Bayesian problems; characterization of Bayes procedures
 62C12 Empirical decision procedures; empirical Bayes procedures
 62C15 Admissibility
 62C20 Minimax procedures
 62C25 Compound decision problems
 62C99 None of the above, but in this section

- 62D05** Sampling theory, sample surveys
62Exx Distribution theory [See also 60Exx]
 62E10 Characterization and structure theory
 62E15 Exact distribution theory
 62E17 Approximations to distributions (nonasymptotic)
 62E20 Asymptotic distribution theory
 62E25 Monte Carlo studies
 62E30 Formal computational methods (polykays, etc.)
 62E99 None of the above, but in this section
62Fxx Parametric inference
 62F03 Hypothesis testing
 62F04 Small-sample properties of tests
 62F05 Asymptotic properties of tests
 62F07 Ranking and selection
 62F10 Point estimation
 62F11 Small-sample properties of estimators
 62F12 Asymptotic properties of estimators
 62F15 Bayesian inference
 62F25 Tolerance and confidence regions
 62F30 Inference under constraints
 62F35 Robustness and adaptive procedures
 62F99 None of the above, but in this section
62Gxx Nonparametric inference
 62G05 Estimation
 62G07 Curve estimation (nonparametric regression, density estimation, etc.)
 62G09 Resampling methods
 62G10 Hypothesis testing
 62G15 Tolerance and confidence regions
 62G20 Asymptotic properties
 62G30 Order statistics; empirical distribution functions
 62G35 Robustness
 62G99 None of the above, but in this section
62Hxx Multivariate analysis [See also 60Exx]
 62H05 Characterization and structure theory
 62H10 Distribution of statistics
 62H11 Directional data; spatial statistics
 62H12 Estimation
 62H15 Hypothesis testing
 62H17 Contingency
 62H20 Measures of association (correlation, canonical correlation, etc.)
 62H25 Factor analysis and principal components; correspondence analysis
 62H30 Classification and discrimination; cluster analysis [See also 68T10]
 62H40 Projection pursuit
 62H99 None of the above, but in this section
62Jxx Linear inference, regression
 62J02 General nonlinear regression
 62J05 Linear regression
 62J07 Ridge regression; James-Stein estimators
 62J10 Analysis of variance and covariance
 62J12 Generalized linear models
 62J15 Paired and multiple comparisons
 62J20 Diagnostics
 62J99 None of the above, but in this section
62Kxx Experimental design [See also 05Bxx]
 62K05 Optimal designs
 62K10 Block designs
 62K15 Factorial designs
 62K99 None of the above, but in this section
62Lxx Sequential methods
 62L05 Sequential design
 62L10 Sequential analysis
 62L12 Sequential estimation
 62L15 Optimal stopping [See also 60G40, 90D60]
 62L20 Stochastic approximation
 62L99 None of the above, but in this section
62Mxx Inference from stochastic processes
 62M02 Markov processes: hypothesis testing
 62M05 Markov processes: estimation
 62M07 Non-Markovian processes: hypothesis testing
 62M09 Non-Markovian processes: estimation
 62M10 Time series, auto-correlation, regression, etc. [See also 90A20]
 62M15 Spectral analysis
 62M20 Prediction [See also 60G25]; filtering [See also 60G35, 93E10, 93E11]
 62M30 Spatial processes
 62M40 Random fields
 62M99 None of the above, but in this section
62Nxx Engineering statistics
 62N05 Reliability and life testing [See also 90B25]
 62N10 Quality control
 62N99 None of the above, but in this section
62Pxx Applications [See also 90-XX, 92-XX]
 62P05 Applications to actuarial sciences and financial mathematics
 62P10 Applications to biology
 62P15 Applications to psychology
 62P20 Applications to economics [See also 90Axx]
 62P25 Applications to social sciences
 62P99 None of the above, but in this section
62Q05 Statistical tables
65-XX NUMERICAL ANALYSIS
 65-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 65-01 Instructional exposition (textbooks, tutorial papers, etc.)
 65-02 Research exposition (monographs, survey articles)
 65-03 Historical (must also be assigned at least one classification number from Section 01)
 65-04 Explicit machine computation and programs (not the theory of computation or programming)
 65-05 Experimental papers
 65-06 Proceedings, conferences, collections, etc.
65A05 Tables
65Bxx Acceleration of convergence
 65B05 Extrapolation to the limit, deferred corrections
 65B10 Summation of series
 65B15 Euler-Maclaurin formula
 65B99 None of the above, but in this section
65Cxx Numerical simulation [For theoretical aspects, see 68U20]
 65C05 Monte Carlo methods
 65C10 Random number generation
 65C20 Models, numerical methods
 65C99 None of the above, but in this section
65Dxx Numerical approximation [Primarily algorithms; for theory, see 41-XX]
 65D05 Interpolation
 65D07 Splines
 65D10 Smoothing, curve fitting
 65D15 Algorithms for functional approximation
 65D17 Computer-aided design (modeling of curves and surfaces) [See also 68U05]
 65D20 Computation of special functions, construction of tables
 65D25 Numerical differentiation
 65D30 Numerical integration
 65D32 Quadrature and cubature formulas
 65D99 None of the above, but in this section
65E05 Numerical methods in complex analysis (potential theory, etc.) [For numerical methods in conformal mapping, see 30C30]
65Fxx Numerical linear algebra
 65F05 Direct methods for linear systems and matrix inversion
 65F10 Iterative methods for linear systems [See also 65N22]
 65F15 Eigenvalues, eigenvectors
 65F20 Overdetermined systems, pseudoinverses
 65F25 Orthogonalization
 65F30 Other matrix algorithms
 65F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60]
 65F40 Determinants
 65F50 Sparse matrices
 65F99 None of the above, but in this section
65Gxx Error analysis
 65G05 Roundoff error
 65G10 Interval and finite arithmetic
 65G99 None of the above, but in this section
65Hxx Nonlinear algebraic or transcendental equations
 65H05 Single equations
 65H10 Systems of equations
 65H17 Eigenvalues, eigenvectors and bifurcation problems [See also 58C40, 58E07, 58F14, 90C30]
 65H20 Global methods, including homotopy approaches [See also 58C30, 90C30]
 65H99 None of the above, but in this section
65Jxx Numerical analysis in abstract spaces
 65J05 General theory
 65J10 Equations with linear operators (do not use 65Fxx)
 65J15 Equations with nonlinear operators (do not use 65Hxx)
 65J20 Improperly posed problems
 65J99 None of the above, but in this section
65Kxx Mathematical programming, optimization and variational techniques
 65K05 Mathematical programming [See also 90Cxx]
 65K10 Optimization and variational techniques [See also 49Mxx, 93B40]
 65K99 None of the above, but in this section
65Lxx Ordinary differential equations
 65L05 Initial value problems
 65L06 Multistep, Runge-Kutta and extrapolation methods
 65L07 Numerical investigation of stability of solutions

- 65L08 Improperly posed problems
 65L10 Boundary value problems
 65L12 Finite difference methods
 65L15 Eigenvalue problems
 65L20 Stability of numerical methods
 65L50 Mesh generation and refinement
 65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods
 65L70 Error bounds
 65L99 None of the above, but in this section
65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems
 65M06 Finite difference methods
 65M12 Stability and convergence of numerical methods
 65M15 Error bounds
 65M20 Method of lines
 65M25 Method of characteristics
 65M30 Improperly posed problems
 65M50 Mesh generation and refinement
 65M55 Multigrid methods; domain decomposition
 65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
 65M70 Spectral, collocation and related methods
 65M99 None of the above, but in this section
65Nxx Partial differential equations, boundary value problems
 65N06 Finite difference methods
 65N12 Stability and convergence of numerical methods
 65N15 Error bounds
 65N22 Solution of discretized equations [See also 65Fxx, 65Hxx]
 65N25 Eigenvalue problems
 65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
 65N35 Spectral, collocation and related methods
 65N38 Boundary element methods
 65N40 Method of lines
 65N45 Method of contraction of the boundary
 65N50 Mesh generation and refinement
 65N55 Multigrid methods; domain decomposition
 65N99 None of the above, but in this section
65P05 Partial differential equations, miscellaneous problems
65Q05 Difference and functional equations, recurrence relations
65Rxx Integral equations, integral transforms [See also 45Lxx]
 65R10 Integral transforms
 65R20 Integral equations
 65R30 Improperly posed problems
 65R99 None of the above, but in this section
65S05 Graphical methods
65Txx Numerical methods in Fourier analysis
 65T10 Trigonometric approximation and interpolation
 65T20 Discrete and fast Fourier transforms
 65T99 None of the above, but in this section
65U05 Numerical methods in probability and statistics
65Yxx Computer aspects of numerical algorithms
 65Y05 Parallel computation
 65Y10 Algorithms for specific classes of architectures
 65Y15 Packaged methods
 65Y20 Complexity and performance of numerical algorithms [See also 68Q25]
 65Y25 Computer graphics and computational geometry [See also 51N05, 68U05]
 65Y99 None of the above, but in this section
68-XX COMPUTER SCIENCE (For papers involving machine computations and programs in a specific mathematical area, see Section -04 in that area)
 68-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 68-01 Instructional exposition (textbooks, tutorial papers, etc.)
 68-02 Research exposition (monographs, survey articles)
 68-03 Historical (must also be assigned at least one classification number from Section 01)
 68-04 Explicit machine computation and programs (not the theory of computation or programming)
 68-06 Proceedings, conferences, collections, etc.
68Mxx Computer system organization
 68M05 General
 68M07 Mathematical problems of computer architecture
 68M10 Computer networks [See also 90B12]
 68M15 Reliability and testing
 68M20 Performance evaluation; queuing; scheduling [See also 60K25, 90Bxx]
 68M99 None of the above, but in this section
68Nxx Software
 68N05 General theory of programming
 68N15 Programming languages
 68N17 Logic programming
 68N20 Compilers and generators [See also 68Q52]

- 68N25 Monitors and operating systems
 68N99 None of the above, but in this section
68Pxx Theory of data
 68P05 Data structures
 68P10 Searching and sorting
 68P15 Database theory
 68P20 Information storage and retrieval
 68P25 Data encryption [See also 94A60]
 68P99 None of the above, but in this section
68Qxx Theory of computing
 68Q05 Models of computation (abstract processors, Turing machines, etc.) [See also 03D10]
 68Q10 Modes of computation (concurrent, parallel, nondeterministic, etc.) [See also 68Q90]
 68Q15 Complexity classes [See also 03D15]
 68Q20 Nonnumerical algorithms {For numerical algorithms, see 65-XX; for combinatorics and graph theory, see 68Rxx}
 68Q22 Parallel and distributed algorithms {For numerical algorithms, see 65Y05, 65Y10}
 68Q25 Analysis of algorithms and problem complexity
 68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)
 68Q35 VLSI algorithms
 68Q40 Symbolic computation, algebraic computation [See also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16-08, 17-08]
 68Q42 Rewriting systems
 68Q45 Formal languages [See also 03D05, 20M35, 94A45]
 68Q50 Grammars [See also 03D05]
 68Q52 Parsing [See also 68N20]
 68Q55 Semantics [See also 03B70, 06B35]
 68Q60 Specification and verification of programs [See also 03B70]
 68Q65 Abstract data types; algebraic specification
 68Q68 Automata theory, general [See also 03D05]
 68Q70 Algebraic theory of automata [See also 18B20, 20M35]
 68Q75 Stochastic and nondeterministic automata
 68Q80 Tessellation automata, iterative arrays, cellular structures
 68Q90 Transition nets
 68Q99 None of the above, but in this section
68Rxx Discrete mathematics in relation to computer science
 68R05 Combinatorics
 68R10 Graph theory [See also 05Cxx, 90B10, 90B35, 90C35]
 68R15 Combinatorics on words
 68R99 None of the above, but in this section
68S05 Mathematical linguistics [See also 03B65, 92K20]
68Txx Artificial intelligence [See also 92J40]
 68T01 General
 68T05 Learning and adaptive systems
 68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30}
 68T15 Theorem proving [See also 03B35]
 68T20 Problem solving
 68T25 AI languages
 68T27 AI logics
 68T30 Knowledge representation
 68T35 AI software systems (knowledge-based systems, expert systems, etc.)
 68T99 None of the above, but in this section
68Uxx Computing methodologies
 68U05 Computer graphics; computational geometry [See also 65Y25]
 68U07 Computer-aided design
 68U10 Image processing
 68U15 Text processing; mathematical typography
 68U20 Simulation [See also 65Cxx]
 68U30 Other applications
 68U99 None of the above, but in this section
70-XX MECHANICS OF PARTICLES AND SYSTEMS (For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82-XX)
 70-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 70-01 Instructional exposition (textbooks, tutorial papers, etc.)
 70-02 Research exposition (monographs, survey articles)
 70-03 Historical (must also be assigned at least one classification number from Section 01)
 70-04 Explicit machine computation and programs (not the theory of computation or programming)
 70-05 Experimental papers
 70-06 Proceedings, conferences, collections, etc.
 70-08 Computational methods
70A05 Axiomatics, foundations
70Bxx Kinematics [See also 53A17]
 70B05 Kinematics of a particle
 70B10 Kinematics of a rigid body
 70B15 Mechanisms, robots [See also 73K05]
 70B99 None of the above, but in this section

- 70C20 Statics**
70Dxx Dynamics of a particle [See also 70Hxx]
 70D05 Newtonian dynamics
 70D10 Lagrangian dynamics
 70D99 None of the above, but in this section
70Exx Dynamics of a rigid body
 70E05 Motion of the gyroscope
 70E10 Motion of projectiles and rockets
 70E15 Motion of rigid bodies
 70E20 Perturbation methods for Euler's equations
 70E99 None of the above, but in this section
70Fxx Dynamics of a system of particles, including celestial mechanics
 70F05 Two-body problem
 70F07 Three-body problem
 70F10 n -body problem
 70F15 Celestial mechanics
 70F20 Holonomic systems
 70F25 Nonholonomic systems
 70F30 Impulsive motion
 70F35 Collisions
 70F99 None of the above, but in this section
70Gxx General representations of dynamical systems [See also 58Fxx]
 70G05 Riemannian geometry, tensorial methods [See also 53A45, 53A50, 53B20]
 70G10 Generalized coordinates
 70G15 Space of events
 70G20 Impulse-energy space
 70G25 Configuration space
 70G30 State space
 70G35 Phase space
 70G50 Classical field theories (general)
 70G99 None of the above, but in this section
70Hxx Hamiltonian and Lagrangian mechanics [See also 58F05]
 70H05 Hamilton's equations
 70H10 Liouville's theorem
 70H15 Canonical transformations
 70H20 Hamilton-Jacobi equations
 70H25 Hamilton's principle
 70H30 Other variational principles
 70H33 Symmetries
 70H35 Lagrange's equation of motion
 70H40 Relativistic dynamics
 70H99 None of the above, but in this section
70Jxx Linear vibration theory [See also 73D30]
 70J05 Finite degree of freedom systems
 70J10 Modal analysis
 70J25 Stability
 70J30 Free motions
 70J35 Forced motions
 70J40 Parametric resonances
 70J99 None of the above, but in this section
70Kxx Nonlinear motions [See also 34Cxx, 58Fxx, 73D35, 73K12]
 70K05 Phase plane analysis
 70K10 Limit cycles
 70K15 Lyapunov theorems
 70K20 Stability
 70K25 Free motions
 70K28 Parametric resonances
 70K30 Nonlinear resonances
 70K40 Forced motions
 70K50 Transition to stochasticity (chaotic behavior) [See also 58F13]
 70K99 None of the above, but in this section
70L05 Random vibrations [See also 73K35, 93Exx]
70M20 Orbital mechanics
70P05 Variable mass, rockets
70Q05 Control of mechanical systems [See also 49-XX, 73K50, 93Cxx, 93Dxx]
73-XX MECHANICS OF SOLIDS
 73-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 73-01 Instructional exposition (textbooks, tutorial papers, etc.)
 73-02 Research exposition (monographs, survey articles)
 73-03 Historical (must also be assigned at least one classification number from Section 01)
 73-04 Explicit machine computation and programs (not the theory of computation or programming)
 73-05 Experimental papers
 73-06 Proceedings, conferences, collections, etc.
73A05 Axiomatics, foundations of solid mechanics

- 73Bxx Continuum mechanics of solids (constitutive description and properties)**
 73B05 Constitutive equations
 73B10 Symmetry groups
 73B18 Nonlocal theories
 73B25 Polar theories
 73B27 Nonhomogeneous materials; homogenization
 73B30 Thermodynamics of solids {For gases and fluids, see 80-XX}
 73B35 Random materials
 73B40 Anisotropic materials
 73B50 Stress concentrations
 73B99 None of the above, but in this section
73Cxx Elasticity [For the biharmonic equation, see 31A30, 31B30]
 73C02 Classical linear elasticity
 73C05 Stress functions
 73C10 Saint-Venant's principle
 73C15 Uniqueness theorems
 73C35 Mixed boundary value problems [See also 45F05]
 73C50 Nonlinear elasticity
 73C99 None of the above, but in this section
73Dxx Wave propagation in and vibrations of solids
 73D05 Impact and explosion problems [See also 76L05]
 73D10 Integral transforms
 73D15 Body waves
 73D20 Surface waves
 73D25 Wave diffraction and dispersion
 73D30 Linear vibrations [See also 70Jxx]
 73D35 Nonlinear vibrations [See also 70Kxx]
 73D40 Singular surfaces
 73D50 Inverse problems [See also 35Lxx, 35R30]
 73D70 Random waves
 73D99 None of the above, but in this section
73Exx Plasticity
 73E05 Constitutive specifications (yield criteria, flow rules, hardening, softening)
 73E10 Method of successive approximations
 73E20 Limit analysis
 73E50 Time-dependent problems
 73E60 Viscoplasticity
 73E70 Plastic waves
 73E99 None of the above, but in this section
73Fxx Viscoelasticity
 73F05 Creep and relaxation functions
 73F10 Correspondence principle
 73F15 Time-dependent problems
 73F20 Aging of materials
 73F25 Environmental-dependent materials
 73F99 None of the above, but in this section
73Gxx Finite deformations
 73G05 Finite elasticity
 73G20 Finite plasticity
 73G25 Finite viscoelasticity
 73G99 None of the above, but in this section
73Hxx Stability (linear and nonlinear)
 73H05 Buckling
 73H10 Dynamic stability
 73H99 None of the above, but in this section
73Kxx Mechanics of structures
 73K03 Strings
 73K05 Beams, columns, rods
 73K10 Plates, discs, membranes
 73K12 Dynamics of structures
 73K15 Shells
 73K20 Composite structures and materials
 73K35 Random vibrations
 73K40 Optimization [See also 90C90]
 73K50 Control of structures
 73K70 Aero- or hydromechanic structure interactions
 73K99 None of the above, but in this section
73M25 Fracture mechanics
 73N20 Geophysical solid mechanics [See also 86A15, 86A17]
 73P20 Biomechanics of solids [See also 92C10]
 73Q05 Soil and rock mechanics [See also 86A60]
 73R05 Electromagnetic elasticity
 73S10 Micromechanics of solids
 73T05 Contact and surface mechanics
 73Vxx Basic methods in solid mechanics [See also 65-xx]
 73V05 Finite element methods
 73V10 Boundary element methods
 73V15 Finite difference methods
 73V20 Other numerical methods
 73V25 Variational methods
 73V30 Stochastic analysis

- 73V35 Complex variable techniques
73V99 None of the above, but in this section
- 76-XX FLUID MECHANICS** {For general continuum mechanics, see 73Bxx, or other parts of 73-XX}
- 76-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
76-01 Instructional exposition (textbooks, tutorial papers, etc.)
76-02 Research exposition (monographs, survey articles)
76-03 Historical (must also be assigned at least one classification number from Section 01)
76-04 Explicit machine computation and programs (not the theory of computation or programming)
76-05 Experimental papers
76-06 Proceedings, conferences, collections, etc.
- 76Axx Foundations, constitutive equations, rheology**
76A02 Foundations of fluid mechanics
76A05 Non-Newtonian fluids
76A10 Viscoelastic fluids
76A15 Liquid crystals [See also 82D30]
76A99 None of the above, but in this section
- 76Bxx Incompressible inviscid fluids, potential theory**
76B05 Airfoil theory
76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing
76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction [See also 35Q53]
76B20 Ship waves
76B25 Solitary and cnoidal waves [See also 35Q51]
76B35 Random waves, inviscid fluids
76B40 Added mass computations
76B45 Capillarity
76B99 None of the above, but in this section
- 76Cxx Incompressible inviscid fluids, vorticity flows**
76C05 Vorticity flows
76C10 Internal waves
76C15 Atmospheric waves
76C20 Rossby waves
76C99 None of the above, but in this section
- 76Dxx Incompressible viscous fluids**
76D05 Navier-Stokes equations [See also 35Q30]
76D07 Stokes flows
76D08 Lubrication theory
76D10 Boundary-layer theory
76D15 Boundary-layer separation and reattachment
76D20 Higher-order effects in boundary layers
76D25 Wakes and jets
76D30 Singular perturbation problems
76D33 Waves
76D35 Random waves, viscous fluids
76D45 Capillarity [See also 76B45]
76D99 None of the above, but in this section
- 76Exx Hydrodynamic stability**
76E05 Stability of parallel flows
76E10 Inertial instability
76E15 Convective instability
76E20 Instability of geophysical and astrophysical flows
76E25 Magnetohydrodynamic and electrohydrodynamic instabilities
76E30 Nonlinear effects
76E99 None of the above, but in this section
- 76Fxx Turbulence** [See also 58F13, 58F27, 60Gxx, 60Jxx]
76F05 Homogeneous isotropic turbulence
76F10 Shear flows
76F20 Turbulence via chaos techniques
76F99 None of the above, but in this section
- 76G25 General aerodynamics and subsonic flows**
76H05 Transonic flows
76J20 Supersonic flows
76K05 Hypersonic flows
76L05 Shock waves and blast waves [See also 35L67, 73D05]
76Mxx Basic methods in fluid mechanics [See also 65-XX]
76M10 Finite element methods
76M15 Boundary element methods
76M20 Finite difference methods
76M25 Other numerical methods
76M30 Variational methods
76M35 Stochastic analysis
76M99 None of the above, but in this section
- 76Nxx Compressible fluids and gas dynamics, general**
76N10 Compressible fluids, general [See also 35Q30]
76N15 Gas dynamics, general
76N20 Boundary-layer theory
76N99 None of the above, but in this section
- 76P05 Rarefied gas flows, Boltzmann equation** [See also 82B40, 82C40, 82D05]
76Q05 Hydrodynamic sound, acoustics
76Rxx Diffusion and convection
76R05 Forced convection
76R10 Free convection
76R50 Diffusion [See also 60J60]
76R99 None of the above, but in this section
- 76S05 Flows in porous media; filtration; seepage**
76T05 Two-phase and multiphase flows
76U05 Rotating fluids
76V05 Stratified and reacting fluids
76W05 Magnetohydrodynamics and electrohydrodynamics
76X05 Ionized gas flow in electromagnetic fields; plasmas
76Y05 Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30]
76Zxx Biological fluid mechanics [See also 92Cxx]
76Z05 Physiological flows [See also 92C35]
76Z10 Biopropulsion in water and in air
76Z99 None of the above, but in this section
- 78-XX OPTICS, ELECTROMAGNETIC THEORY** {For quantum optics, see 81V80}
- 78-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
78-01 Instructional exposition (textbooks, tutorial papers, etc.)
78-02 Research exposition (monographs, survey articles)
78-03 Historical (must also be assigned at least one classification number from Section 01)
78-04 Explicit machine computation and programs (not the theory of computation or programming)
78-05 Experimental papers
78-06 Proceedings, conferences, collections, etc.
78-08 Computational methods
- 78A02 Foundations**
78A05 Geometric optics
78A10 Physical optics
78A15 Electron optics
78A20 Space charge waves
78A25 Electromagnetic theory, general
78A30 Electro- and magnetostatics
78A35 Motion of charged particles
78A40 Waves and radiation
78A45 Diffraction, scattering [See also 34E20 for WKB methods]
78A50 Antennas, wave-guides
78A55 Technical applications
78A60 Lasers, masers, optical bistability, nonlinear optics [See also 81V80]
78A70 Biological applications [See also 92C30, 92J30]
78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)
78A99 Miscellaneous topics
- 80-XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER** {For thermodynamics of solids, see 73B30}
- 80-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
80-01 Instructional exposition (textbooks, tutorial papers, etc.)
80-02 Research exposition (monographs, survey articles)
80-03 Historical (must also be assigned at least one classification number from Section 01)
80-04 Explicit machine computation and programs (not the theory of computation or programming)
80-05 Experimental papers
80-06 Proceedings, conferences, collections, etc.
80-08 Computational methods
- 80A05 Foundations**
80A10 Classical thermodynamics
80A15 Thermodynamics of mixtures
80A20 Heat and mass transfer, heat flow
80A22 Stefan problems, phase changes, etc.
80A23 Inverse problems
80A25 Combustion, interior ballistics
80A30 Chemical kinetics [See also 92C45, 92E20]
80A32 Chemically reacting flows [See also 92C45, 92E20]
80A50 Chemistry (general) [See mainly 92Exx]
80A97 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)
80A99 Miscellaneous topics
- 81-XX QUANTUM THEORY**
81-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
81-01 Instructional exposition (textbooks, tutorial papers, etc.)
81-02 Research exposition (monographs, survey articles)
81-03 Historical (must also be assigned at least one classification number from Section 01)

- 81-04 Explicit machine computation and programs (not the theory of computation or programming)
- 81-05 Experimental papers
- 81-06 Proceedings, conferences, collections, etc.
- 81-08 Computational methods
- 81Pxx Axiomatics, foundations, philosophy**
- 81P05 General and philosophical
- 81P10 Logical foundations of quantum mechanics
- 81P15 Quantum measurement theory
- 81P20 Stochastic mechanics (including stochastic electrodynamics)
- 81P99 None of the above, but in this section
- 81Qxx General mathematical topics and methods in quantum theory**
- 81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum mechanical equations
- 81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
- 81Q15 Perturbation theories for operators and differential equations
- 81Q20 Semiclassical techniques including WKB and Maslov methods
- 81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [See also 14D05, 32S40]
- 81Q40 Bethe-Salpeter and other integral equations
- 81Q50 Quantum chaos [See also 58F13]
- 81Q60 Supersymmetric quantum mechanics
- 81Q99 None of the above, but in this section
- 81Rxx Groups and algebras in quantum theory**
- 81R05 Representations of finite-dimensional groups and algebras motivated by physics [See also 20C35, 22E70]
- 81R10 Representations of infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody and other current algebras [See also 17B65, 17B67, 22E65, 22E67, 22E70]
- 81R20 Covariant wave equations
- 81R25 Spinor and twistor methods [See also 32L25]
- 81R30 Coherent states [See also 22E45]
- 81R40 Symmetry breaking
- 81R50 Quantum groups and related algebraic methods [See also 16W30, 17B37]
- 81R99 None of the above, but in this section
- 81Sxx General quantum mechanics and problems of quantization**
- 81S05 Commutation relations
- 81S10 Geometric quantization, symplectic methods [See also 58F06]
- 81S20 Stochastic quantization
- 81S25 Quantum stochastic calculus
- 81S30 Phase space methods including Wigner distributions, etc.
- 81S40 Path integrals [See also 58D30]
- 81S99 None of the above, but in this section
- 81Txx Quantum field theory; related classical field theories**
- 81T05 Axiomatic quantum field theory; operator algebras
- 81T08 Constructive quantum field theory
- 81T10 Model quantum field theories
- 81T13 Yang-Mills and other gauge theories [See also 53C07, 58E15]
- 81T15 Perturbative methods of renormalization
- 81T16 Nonperturbative methods of renormalization
- 81T17 Renormalization group methods
- 81T18 Feynman diagrams
- 81T20 Quantum field theory on curved space backgrounds
- 81T25 Quantum field theory on lattices
- 81T27 Continuum limits
- 81T30 String and superstring theories; other extended objects [See also 83E30]
- 81T40 Two-dimensional field theories, conformal field theories, etc.
- 81T50 Anomalies
- 81T60 Supersymmetric field theories
- 81T70 Quantization in field theory; cohomological methods [See also 58F06]
- 81T80 Simulation and numerical modeling
- 81T99 None of the above, but in this section
- 81Uxx Scattering theory [See also 47A40]**
- 81U05 2-body potential scattering theory [See also 34E20 for WKB methods]
- 81U10 n -body potential scattering theory
- 81U20 S -matrix theory, etc.
- 81U30 Dispersion theory, dispersion relations
- 81U40 Inverse scattering problems [See also 58F07, 58F19]
- 81U99 None of the above, but in this section
- 81Vxx Applications to specific physical systems**
- 81V05 Strong interaction, including quantum chromodynamics
- 81V10 Electromagnetic interaction; quantum electrodynamics
- 81V15 Weak interaction
- 81V17 Gravitational interaction
- 81V19 Other fundamental interactions
- 81V22 Unified theories
- 81V25 Other elementary particle theory
- 81V35 Nuclear physics
- 81V45 Atomic physics
- 81V55 Molecular physics [See also 92E10]
- 81V70 Many-body theory
- 81V80 Quantum optics
- 81V99 None of the above, but in this section
- 82-XX STATISTICAL MECHANICS, STRUCTURE OF MATTER**
- 82-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 82-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 82-02 Research exposition (monographs, survey articles)
- 82-03 Historical (must also be assigned at least one classification number from Section 01)
- 82-04 Explicit machine computation and programs (not the theory of computation or programming)
- 82-05 Experimental papers
- 82-06 Proceedings, conferences, collections, etc.
- 82-08 Computational methods
- 82Bxx Equilibrium statistical mechanics**
- 82B03 Foundations
- 82B05 Classical equilibrium statistical mechanics (general)
- 82B10 Quantum equilibrium statistical mechanics (general)
- 82B20 Lattice systems (Ising, dimer, Potts, etc.)
- 82B21 Continuum models (systems of particles, etc.)
- 82B23 Exactly solvable models
- 82B24 Interface problems
- 82B26 Phase transitions (general)
- 82B27 Critical phenomena
- 82B28 Renormalization group methods [See also 81T17]
- 82B30 Statistical thermodynamics [See also 80-XX]
- 82B31 Stochastic methods
- 82B35 Irreversible thermodynamics, including Onsager-Machlup theory [See also 92E20]
- 82B40 Kinetic theory of gases
- 82B41 Random walks, random surfaces, lattice animals, etc. [See also 60J15, 82C41]
- 82B43 Percolation [See also 60K35]
- 82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)
- 82B80 Numerical methods (Monte Carlo, series resummation, etc.) [See also 65-XX, 81T80]
- 82B99 Miscellaneous topics
- 82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)**
- 82C03 Foundations
- 82C05 Classical dynamic and nonequilibrium statistical mechanics (general)
- 82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)
- 82C20 Dynamic lattice systems (kinetic Ising, etc.)
- 82C21 Dynamic continuum models (systems of particles, etc.)
- 82C22 Interacting particle systems [See also 60K35]
- 82C23 Exactly solvable dynamic models [See also 58F07]
- 82C24 Interface problems
- 82C26 Dynamic and nonequilibrium phase transitions (general)
- 82C27 Dynamic critical phenomena
- 82C28 Dynamic renormalization group methods [See also 81T17]
- 82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [See also 60H10]
- 82C32 Neural nets [See also 68T05, 92B20, 92J40]
- 82C35 Irreversible thermodynamics, including Onsager-Machlup theory
- 82C40 Kinetic theory of gases
- 82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [See also 60J15]
- 82C43 Time-dependent percolation [See also 60K35]
- 82C44 Dynamics of disordered systems (random Ising systems, etc.)
- 82C70 Transport processes
- 82C80 Numerical methods (Monte Carlo, series resummation, etc.)
- 82C99 None of the above, but in this section
- 82Dxx Applications to specific types of physical systems**
- 82D05 Gases
- 82D10 Plasmas
- 82D15 Liquids
- 82D20 Solids
- 82D25 Crystals {For crystallographic group theory, see 20H15}
- 82D30 Random media, disordered materials (including liquid crystals and spin glasses)
- 82D35 Metals
- 82D40 Magnetic materials
- 82D45 Ferroelectrics
- 82D50 Superfluids
- 82D55 Superconductors
- 82D60 Polymers
- 82D75 Nuclear reactor theory
- 82D99 None of the above, but in this section

83-XX RELATIVITY AND GRAVITATIONAL THEORY

- 83-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 83-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 83-02 Research exposition (monographs, survey articles)
- 83-03 Historical (must also be assigned at least one classification number from Section 01)
- 83-04 Explicit machine computation and programs (not the theory of computation or programming)
- 83-05 Experimental papers
- 83-06 Proceedings, conferences, collections, etc.
- 83-08 Computational methods
- 83A05 Special relativity**
- 83B05 Observational and experimental questions**
- 83Cxx General relativity**
- 83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)
- 83C10 Equations of motion
- 83C15 Exact solutions
- 83C20 Classes of solutions; algebraically special solutions, metrics with symmetries
- 83C22 Electromagnetic fields, Einstein-Maxwell equations
- 83C25 Approximation procedures, weak fields
- 83C27 Lattice gravity, Regge calculus and other discrete methods
- 83C30 Asymptotic procedures (radiation, news functions, \mathcal{H} -spaces, etc.)
- 83C35 Gravitational waves
- 83C40 Gravitational energy and conservation laws; groups of motions
- 83C45 Quantization of the gravitational field
- 83C47 Quantum field theory aspects [See also 81T20]
- 83C50 Electromagnetic fields
- 83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)
- 83C57 Black holes
- 83C60 Spinor and twistor methods
- 83C75 Space-time singularities, cosmic censorship, etc.
- 83C99 None of the above, but in this section
- 83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories**
- 83Exx Unified, higher-dimensional and super field theories**
- 83E05 Geometrodynamics
- 83E15 Kaluza-Klein and other higher-dimensional theories
- 83E30 String and superstring theories [See also 81T30]
- 83E50 Supergravity
- 83E99 None of the above, but in this section
- 83F05 Cosmology**

85-XX ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see 70F15}

- 85-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 85-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 85-02 Research exposition (monographs, survey articles)
- 85-03 Historical (must also be assigned at least one classification number from Section 01)
- 85-04 Explicit machine computation and programs (not the theory of computation or programming)
- 85-05 Experimental papers
- 85-06 Proceedings, conferences, collections, etc.
- 85-08 Computational methods
- 85A04 General
- 85A05 Galactic and stellar dynamics
- 85A15 Galactic and stellar structure
- 85A20 Stellar atmospheres
- 85A25 Radiative transfer
- 85A30 Hydrodynamic and hydromagnetic problems [See also 76Y05]
- 85A35 Statistical astronomy
- 85A40 Cosmology {For relativistic cosmology, see 83F05}
- 85A45 Radio astronomy
- 85A99 Miscellaneous topics

86-XX GEOPHYSICS [See also 73N20, 76U05, 76V05]

- 86-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 86-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 86-02 Research exposition (monographs, survey articles)
- 86-03 Historical (must also be assigned at least one classification number from Section 01)
- 86-04 Explicit machine computation and programs (not the theory of computation or programming)
- 86-05 Experimental papers
- 86-06 Proceedings, conferences, collections, etc.
- 86-08 Computational methods
- 86A04 General
- 86A05 Hydrology, hydrography, oceanography [See also 76B15, 76B20, 76B25, 76C15, 76E20, 76Q05, 76Rxx, 76U05]

- 86A10 Meteorology and atmospheric physics [See also 76Bxx, 76C15, 76C20, 76E20, 76N15, 76Q05, 76Rxx, 76U05, 76V05]
- 86A15 Seismology [See also 73Dxx, 73Fxx, 73M25, 73N20, 73Q05]
- 86A17 Global dynamics, earthquake problems
- 86A20 Potentials, prospecting [See also 76S05, 76W05]
- 86A22 Inverse problems [See also 35R30]
- 86A25 Geo-electricity and geomagnetism [See also 78A25]
- 86A30 Geodesy, mapping problems
- 86A32 Geostatistics
- 86A40 Glaciology
- 86A60 Geological problems
- 86A99 Miscellaneous topics

90-XX ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES

- 90-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 90-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 90-02 Research exposition (monographs, survey articles)
- 90-03 Historical (must also be assigned at least one classification number from Section 01)
- 90-04 Explicit machine computation and programs (not the theory of computation or programming)
- 90-06 Proceedings, conferences, collections, etc.
- 90-08 Computational methods
- 90Axx Mathematical economics {For econometrics, see 62P20}**
- 90A05 Decision theory [See also 62Cxx, 90B50, 90D35]
- 90A06 Individual preferences
- 90A07 Group preferences
- 90A08 Social choice
- 90A09 Finance, portfolios, investment
- 90A10 Utility theory
- 90A11 Production theory, theory of the firm
- 90A12 Price theory and market structure
- 90A14 Equilibrium: general theory
- 90A15 General economic models, trade models
- 90A16 Dynamic economic models, growth models
- 90A17 Multisectoral models
- 90A19 Statistical models; economic indexes and measures
- 90A20 Economic time series analysis [See also 62M10]
- 90A25 Spatial models
- 90A27 Public goods
- 90A28 Voting theory
- 90A30 Environmental economics (natural resource models, harvesting, pollution, etc.)
- 90A35 Informational economics
- 90A36 Incentives theory
- 90A40 Consumer behavior, demand theory
- 90A43 Expected utility; risk-averse utility
- 90A46 Risk theory
- 90A50 Labor market
- 90A53 Special types of economies
- 90A56 Special types of equilibria
- 90A58 Models of real-world systems; general macro-economic models, etc.
- 90A60 Market models (auctions, bargaining, bidding, selling, etc.)
- 90A70 Macro-economic policy-making, taxation
- 90A80 Resource allocation
- 90A99 None of the above, but in this section
- 90Bxx Operations research and management science**
- 90B05 Inventory, storage, reservoirs
- 90B06 Transportation, logistics
- 90B10 Flows in networks, deterministic
- 90B12 Communication networks [See also 68M10, 94A05]
- 90B15 Flows in networks, probabilistic
- 90B20 Highway traffic
- 90B22 Queues and service [See also 60K25, 68M20]
- 90B25 Reliability, availability, maintenance, inspection [See also 60K10, 62N05]
- 90B30 Production models
- 90B35 Scheduling theory [See also 68M20]
- 90B40 Search theory
- 90B50 Management decision-making, including multiple objectives [See also 90A05, 90C31, 90D35]
- 90B60 Marketing, advertising [See also 90A60]
- 90B70 Theory of organizations, industrial and manpower planning [See also 92H35]
- 90B80 Discrete location and assignment [See also 90C10]
- 90B85 Continuous location
- 90B90 Case-oriented studies
- 90B99 None of the above, but in this section

- 90Cxx Mathematical programming** [See also 49Mxx, 65Kxx]
- 90C05 Linear programming
- 90C06 Large-scale problems
- 90C08 Special problems of linear programming (transportation, multi-index, etc.)
- 90C09 Boolean programming
- 90C10 Integer programming
- 90C11 Mixed integer programming
- 90C15 Stochastic programming
- 90C20 Quadratic programming
- 90C25 Convex programming
- 90C26 Nonconvex programming, quasiconvex programming
- 90C27 Combinatorial optimization
- 90C28 Geometric programming
- 90C29 Multi-objective and goal programming; vector optimization
- 90C30 Nonlinear programming
- 90C31 Sensitivity, stability, parametric optimization
- 90C32 Fractional programming
- 90C33 Complementarity problems
- 90C34 Semi-infinite programming
- 90C35 Programming involving graphs or networks
- 90C39 Dynamic programming [See also 49L20]
- 90C40 Markov and semi-Markov decision processes
- 90C42 Markov programming and Markov renewal programming
- 90C45 Continuous programming
- 90C48 Programming in abstract spaces
- 90C60 Abstract computational complexity for mathematical programming problems [See also 68Q25]
- 90C70 Fuzzy programming
- 90C90 Applications of mathematical programming
- 90C99 None of the above, but in this section
- 90Dxx Game theory**
- 90D05 2-person games
- 90D06 n -person games, $n > 2$
- 90D10 Noncooperative games
- 90D12 Cooperative games
- 90D13 Games with infinitely many players
- 90D15 Stochastic games [See also 93E05]
- 90D20 Multistage and repeated games
- 90D25 Differential games [See also 49N55]
- 90D26 Pursuit and evasion games
- 90D35 Decision theory for games [See also 62Cxx, 90A05, 90B50]
- 90D40 Game-theoretic models [See also 65Cxx]
- 90D42 Positional games
- 90D43 Games involving graphs
- 90D44 Games involving topology or set theory
- 90D46 Combinatorial games
- 90D50 Discrete-time games
- 90D55 Games of timing
- 90D60 Probabilistic games; gambling
- 90D65 Hierarchical games
- 90D70 Spaces of games
- 90D80 Applications of game theory
- 90D99 None of the above, but in this section
- 92-XX BIOLOGY AND OTHER NATURAL SCIENCES, BEHAVIORAL SCIENCES**
- 92-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 92-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 92-02 Research exposition (monographs, survey articles)
- 92-03 Historical (must also be assigned at least one classification number from Section 01)
- 92-04 Explicit machine computation and programs (not the theory of computation or programming)
- 92-06 Proceedings, conferences, collections, etc.
- 92-08 Computational methods
- 92Bxx Mathematical biology in general**
- 92B05 General biology and biomathematics
- 92B10 Taxonomy, statistics
- 92B15 General biostatistics [See also 62P10]
- 92B20 Neural networks [See also 68T05, 82C32, 94Cxx]
- 92B99 None of the above, but in this section
- 92Cxx Physiological, cellular and medical topics**
- 92C05 Biophysics
- 92C10 Biomechanics [See also 73P20]
- 92C15 Developmental biology, pattern formation
- 92C20 Neural biology
- 92C30 Physiology (general)
- 92C35 Physiological flow [See also 76Z05]
- 92C40 Biochemistry, molecular biology
- 92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [See also 80A30]

- 92C50 Medical applications (general)
- 92C55 Tomography [See also 44A12, 65R10]
- 92C60 Medical epidemiology
- 92C99 None of the above, but in this section
- 92Dxx Genetics and population dynamics**
- 92D10 Genetics [For genetic algebras, see 17D92]
- 92D15 Problems related to evolution
- 92D20 Protein sequences, DNA sequences
- 92D25 Population dynamics (general)
- 92D30 Epidemiology
- 92D40 Ecology
- 92D50 Animal behavior
- 92D99 None of the above, but in this section
- 92Exx Chemistry** (For biochemistry, see 92C40)
- 92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)
- 92E20 Classical flows, reactions, etc. [See also 80A30, 80A32]
- 92E99 None of the above, but in this section
- 92F05 Other natural sciences**
- 92Gxx Social and behavioral sciences: methodology** (For statistics, see 62-XX)
- 92G05 Measurement theory
- 92G15 One- and multidimensional scaling
- 92G20 Test theory
- 92G25 Questionnaire analysis
- 92G30 Clustering [See also 62H30]
- 92G40 Q-analysis
- 92G99 None of the above, but in this section
- 92Hxx Mathematical sociology (including anthropology)**
- 92H10 Models of societies, social and urban evolution
- 92H20 Mathematical geography and demography
- 92H25 Spatial models [See also 90A25]
- 92H30 Social networks
- 92H35 Manpower systems [See also 90A50, 90B70]
- 92H99 None of the above, but in this section
- 92Jxx Mathematical psychology**
- 92J10 Cognitive psychology
- 92J30 Psychophysics and psychophysiology; perception
- 92J40 Memory and learning [See also 68T05]
- 92J45 Measurement and performance
- 92J99 None of the above, but in this section
- 92Kxx Other social and behavioral sciences (mathematical treatment)**
- 92K10 History, political science
- 92K20 Linguistics [See also 03B65, 68S05]
- 92K99 None of the above, but in this section
- 93-XX SYSTEMS THEORY; CONTROL** (For optimal control, see 49-XX)
- 93-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 93-01 Instructional exposition (textbooks, tutorial papers, etc.)
- 93-02 Research exposition (monographs, survey articles)
- 93-03 Historical (must also be assigned at least one classification number from Section 01)
- 93-04 Explicit machine computation and programs (not the theory of computation or programming)
- 93-06 Proceedings, conferences, collections, etc.
- 93Axx General**
- 93A05 Axiomatic system theory
- 93A10 General systems
- 93A13 Hierarchical systems
- 93A14 Decentralized systems
- 93A15 Large-scale systems
- 93A20 Cascaded systems
- 93A25 Input-output systems
- 93A30 Mathematical modeling (models of systems, model-matching, etc.)
- 93A99 None of the above, but in this section
- 93Bxx Controllability, observability, and system structure**
- 93B03 Attainable sets
- 93B05 Controllability
- 93B06 Relations between controllability and optimal solutions
- 93B07 Observability
- 93B10 Canonical structure
- 93B11 System structure simplification
- 93B12 Variable structure systems
- 93B15 Realizability of systems from input-output data
- 93B17 Transformation
- 93B18 Linearizability
- 93B20 Minimal systems representations
- 93B25 Algebraic methods
- 93B27 Geometric methods (including algebro-geometric)
- 93B28 Operator-theoretic methods [See also 47A57, 47N70]
- 93B29 Differential-geometric methods
- 93B30 System identification
- 93B35 Sensitivity (robustness)

- 93B36 H^∞ -control
 93B40 Computational methods
 93B50 Synthesis problems
 93B51 Design techniques (robust design, computer-aided design, etc.)
 93B52 Feedback control
 93B55 Pole and zero placement problems
 93B60 Eigenvalue problems
 93B99 None of the above, but in this section
 93Cxx **Control systems, guided systems**
 93C05 Linear
 93C10 Nonlinear
 93C15 Systems governed by ordinary differential equations
 93C20 Systems governed by partial differential equations
 93C22 Systems governed by integral equations
 93C25 Systems in abstract spaces
 93C30 Systems governed by functional relations other than differential or integral equations
 93C35 Multivariable, multidimensional systems
 93C40 Adaptive control systems
 93C41 Problems with incomplete information
 93C42 Fuzzy control
 93C45 Time-invariant
 93C50 Time-dependent
 93C55 Discrete-time
 93C57 Sampled-data
 93C60 Continuous-time
 93C62 Digital systems
 93C70 Time-scale analysis and related topics
 93C73 Perturbations in control systems
 93C80 Frequency-response methods
 93C83 Control problems involving computers (process control, etc.)
 93C85 Automated systems (robots, etc.)
 93C90 Random disturbances in control systems
 93C95 Applications of control theory
 93C99 None of the above, but in this section
 93Dxx **Stability**
 93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, L^p , l^p , etc.)
 93D09 Robust stability
 93D10 Popov-type stability of feedback systems
 93D15 Stabilization of systems by feedback
 93D20 Asymptotic stability
 93D21 Adaptive and robust stabilization
 93D22 Interrelations between stability problems and optimization problems
 93D25 Input-output approaches
 93D30 Scalar and vector Lyapunov functions
 93D99 None of the above, but in this section
 93Exx **Stochastic systems and control**
 93E03 Stochastic systems, general
 93E05 Stochastic games, stochastic differential games [See also 90D15]
 93E10 Estimation and detection [See also 60G35]
 93E11 Filtering [See also 60G35]
 93E12 System identification
 93E14 Data smoothing
 93E15 Stochastic stability
 93E20 Optimal stochastic control
 93E23 Stochastic gradient methods
 93E24 Least squares and related methods
 93E25 Other computational methods
 93E30 Computer simulations of stochastic systems
 93E35 Stochastic learning and adaptive control
 93E99 None of the above, but in this section
 94-XX **INFORMATION AND COMMUNICATION, CIRCUITS**
 94-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
 94-01 Instructional exposition (textbooks, tutorial papers, etc.)
 94-02 Research exposition (monographs, survey articles)
 94-03 Historical (must also be assigned at least one classification number from Section 01)
 94-04 Explicit machine computation and programs (not the theory of computation or programming)
 94-06 Proceedings, conferences, collections, etc.
 94Axx **Communication, information**
 94A05 Communication theory [See also 60G35, 90B12]
 94A11 Application of orthogonal functions in communication
 94A12 Signal theory (characterization, reconstruction, etc.)
 94A13 Detection theory
 94A14 Modulation and demodulation
 94A15 Information theory, general [See also 62B10]
 94A17 Measures of information, entropy
 94A24 Coding theorems (Shannon theory)
 94A29 Source coding
 94A34 Rate-distortion theory
 94A40 Channel models
 94A45 Prefix, length-variable, comma-free codes [See also 20M35, 68Q45]
 94A50 Theory of questionnaires
 94A55 Shift register sequences
 94A60 Cryptography [See also 11T71, 68P25]
 94A99 None of the above, but in this section
 94Bxx **Theory of error-correcting codes**
 94B05 Linear codes, general
 94B10 Convolutional codes
 94B12 Combined modulation schemes (including trellis codes)
 94B15 Cyclic codes
 94B20 Burst-correcting codes
 94B25 Combinatorial codes
 94B27 Geometric methods (including applications of algebraic geometry) [See also 11T71]
 94B30 Majority codes
 94B35 Decoding
 94B40 Arithmetic codes [See also 11T71]
 94B50 Synchronization error-correcting codes
 94B60 Other types of codes
 94B65 Bounds on codes
 94B70 Error probability
 94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [See also 11H31]
 94B99 None of the above, but in this section
 94Cxx **Circuits, networks**
 94C05 Analytic circuit theory
 94C10 Switching theory, application of Boolean algebra; Boolean functions [See also 06E30]
 94C12 Fault detection; testing
 94C15 Applications of graph theory [See also 05Cxx, 68R10]
 94C30 Applications of design theory [See also 05Bxx]
 94C99 None of the above, but in this section
 94D05 **Fuzzy sets and logic (in connection with questions of Section 94)** [See also 03B52, 03E72, 04A72, 28E10]

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